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Seed Annual

1920

Seattle Seed Co.

Established 1893

Seattle, Wash.



Our New Early Dwarf
Gradus Peas



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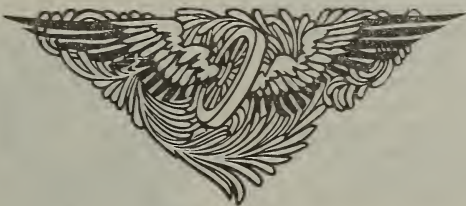
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We are again in the field for your Seed business, and present you herewith our new 1920 Seed Annual. Owing to our policy of furnishing only "The Best of Everything" our business is steadily on the increase, and we take occasion herewith to thank you for your past patronage and trust you will favor us with your future business.

Our seeds are thoroughly recleaned and tested and are *better* than our pure seed law requires. Do not buy inferior seeds offered at lower prices by unknown firms and new concerns without standing; buy only from a reliable house—it will pay you. We have been in the seed business for 26 years.

Prices quoted are subject to market changes.



Each Catalogue is provided with an order Sheet and addressed envelope. Please use these in making out and mailing your order. Write so plainly that there can be no mistake as to your name, your address or your shipping directions.

All seeds are sent by mail or express at our expense, at the price stated, except where noted under different heads. The prices given for 10, 25 and 100 pound lots do not include freight, which must be paid by the party ordering. Prices quoted herein are subject to market changes. Seeds can be sent by Parcels Post, same as other merchandise, and at the same rate of postage. All **Beans, Peas, Corn** and **Grass Seeds**, if wanted sent by Parcels Post, Express or Freight, add carrying charges. See schedule for Parcel Post rates.

NOTICE.—We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any **Seeds, Bulbs, or Plants** shipped out or bought at our store, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned and money paid for them will be refunded.

SEATTLE SEED CO.

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VEGETABLE SEED

:: DEPARTMENT ::



Be not deceived by flaring headlines and beautiful appearing illustrations of so-called wonderful NEW creations in the plant world. Nine times out of ten they are only old-timers dressed up in new clothes

and lauded to the sky in order to sell at exorbitant prices. We offer you all the old and tried varieties "sure to grow," and whenever we find something new of merit we offer it to the trade only after we are convinced of its reliability.

ARTICHOKE

Dwarf or Bush Green Podded Kinds

LARGE GREEN GLOBE—The variety used as a table vegetable. The edible portion is the thick end of the leaf of the flower head, cooked like asparagus. Sow early in drills one foot apart, and, when about ten inches high, transplant into rows four feet apart each way. It will produce only a small crop the first year, but will continue in good bearing five years. Cut before the bud opens.

Pkt., 5c; oz., 35c; 2 oz., 60c; ¼ lb., 95c;

ASPARAGUS

One of the first and most healthful of early spring vegetables. Soak the seed twenty-four hours in warm water, and sow in drills one foot apart. An ounce of seed will sow about thirty feet of drill. Keep the soil mellow and free from weeds. After one year's growth, transplant a foot apart, in rows about three feet apart. The crown of the plant should be six inches below the surface. Keep the soil loose, manure heavily, and give an annual dressing of salt when the plant is dormant.

CONOVER'S COLOSSAL—The standard variety on account of its large size, great productiveness, and superior quality.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

COLUMBIAN MAMMOTH WHITE—A newer and distinct and valuable variety. The stalks are white, of the largest size; very productive and early.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

PALMETTO—About the same size as Colossal, quite early, and shades towards bright green in color.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

BEANS

Plant, after danger of frost is past, in rich, mellow loam, or highly manured soil, finely pulverized. The bush varieties yield best when planted four to six inches apart in two and one-half to three foot rows. Keep the ground moist, and cultivate thoroughly, being careful not to work among nor handle them when wet or damp with rain or dew.

Add postage if wanted by Parcel Post.



EXTRA EARLY RED VALENTINE, IMPROVED ROUND POD—Is of healthy, vigorous growth, and has no superior in any respect among the green-podded kinds. The pods are round, very fleshy, tender, and rich. The bean is rather small, and, when ripe, usually irregular in form and red in color.

Pkt., 10c; lb., 25c.

CANADIAN WONDER—The hardiest of the bush kinds, and may safely be planted a week earlier than any other. The pods are pale green, large and broad. The vines continue in bearing a long time, and will withstand a light frost. The bean is mahogany red and very attractive.

Pkt., 10c; lb., 25c.

EARLY LONG YELLOW SIX WEEKS—A standard variety; vines vigorous and productive; pods very long and tender when young. The bean is long, and of a rich brownish yellow color.

Pkt., 10c; lb., 25c.

EARLY ROUND YELLOW SIX WEEKS IMPROVED ROUND POD—Thick, fleshy pods, and quite stringless; very early and hardy; superior to the old Yellow Six Weeks. Dry beans are yellow drab, and nearly round.

Pkt., 10c; lb., 25c.

EXTRA EARLY REFUGEE—Said to be the earliest green-podded variety, fit for the table two weeks in advance of the old Refugee, and retaining all the good qualities of that standard sort.

Pkt., 10c; lb., 25c.

BEANS—Continued

REFUGEE or THOUSAND TO ONE—The best late kind for snaps, and very productive. The pods are dark green, veined with purple, tender and crisp, and considered the best variety for pickling. The bean is rather small, oblong, dark purple to black, mottled with light yellowish brown.
Pkt., 10c; lb., 25c.

BROAD WINSOR—Also known as Horse Beans. Stock erect, strong and shrubby. The bean is large, broad and flat; it is best green shelled. To insure well-filled pods, pinch off the top of the stock and the ends of the shoots when the pods are forming. A very popular table vegetable in European countries.
Pkt., 10c; lb., 25c.

STRINGLESS GREEN POD—A valuable addition to the green-podded sorts; extra early round, fleshy pods; very brittle, and almost entirely stringless.
Pkt., 10c; lb., 25c.

Dwarf Lima Beans

HENDERSON'S BUSH LIMA—A small Lima Bean, early and prolific; desirable for early use, but not equal in quality to the different Large Limas.
Pkt., 10c; lb., 30c.

BURPEE'S BUSH LIMA—Beans as large and as fine in quality as the pole varieties. It is also a heavy yielder.
Pkt., 10c; lb., 30c.

Dwarf or Bush Wax, Yellow Podded Kinds

EXTRA EARLY CHALLENGE BLACK WAX—Extremely early, about a week in advance of any other wax variety, and considered the most desirable for first crop. The plants are vigorous and very productive. Ripe beans medium size, jet black.
Pkt., 10c; lb., 25c.

GOLDEN WAX—A standard wax variety, earlier than the old wax kinds. The pods are stringless, very tender, and excellent. The bean is of medium size, purple and white marbled, and one of the best quality, green shelled or dry.
Pkt., 10c; lb., 25c.

DAVIS WAX—A hardy, rustless, and immensely productive bush variety. The pods are long, nearly straight, white, and handsome; cooked when young they are tender, juicy, and of fine flavor. The dried bean is kidney shaped, clear white, and a favorite for baking and canning. Popular with canners and market gardeners.
Pkt., 10c; lb., 25c.

WARDWELL'S KIDNEY WAX—A robust, hardy variety, yielding a heavy crop of large, unusually handsome, wax-like pods. They are fleshy, tender and excellent, and are ready for the table earlier than any other wax kind, except the Black-Eyed Wax. The bean, which is white with dark markings around the eyes, is larger than most other wax beans.
Pkt., 10c; lb., 25c.

RUST-PROOF or DETROIT WAX—Excelling in some respects any other wax variety. Is not likely to rust, even when exposed to very wet weather. Pods flat, good length and very broad. Its quality of keeping fresh and crisp a long time after being picked makes it valuable for shipping long distances. It is extra early, quality in the pod all that can be desired, and also excellent green shelled.
Crop failed.

GERMAN WAX, WHITE SEEDED—Much resembling the Black Seeded, except that the pods are larger. The bean, being white, is preferred by some dry for winter use.
Pkt., 10c; lb., 25c.

Pole or Running Varieties

The pole or running kinds require greater care than the dwarf or bush varieties, but continue in bearing all summer, and yield a much larger crop. They should be planted in rich, mellow soil, in hills four feet apart each way, and well supported with frames or poles firmly placed in the ground. Plant five or six beans in each hill, but allow only three or four vigorous plants to mature.

WHITE CREASE BACK—Vines not as large as some other kinds, but very productive. The pods, which are produced in large clusters, are round, fleshy, of superior quality, mature early, and stand shipping any required distance. The bean is small, white, very firm, and excellent dry shelled. A great favorite in many parts of the South.
Pkt., 10c; lb., 25c.

KENTUCKY WONDER or OLD HOME-STEAD—A vigorous, good climber, very prolific, bearing in clusters extremely long and very fleshy, succulent pods, round, thick, and remarkably tender. Dry beans are dun colored, long, and oval. A first-class pole variety.
Pkt., 10c; lb., 25c.

DUTCH CASE KNIFE—Produces large, flat pods, that are excellent for snaps, cut young. The bean is white, large, flat, and superior quality green shelled or dry.
Pkt., 10c; lb., 25c.

BEANS—Continued

LONDON HORTICULTURAL or SPECKLED CRANBERRY—Very desirable for the family garden. Vines vigorous, bearing light green pods, streaked with red. The bean is large, oval, cream-colored, beautifully splashed with red, and has no superior for cooking, either green shelled or dry.

Pkt., 10c; lb., 25c.

SCARLET RUNNER—A rapid grower, cultivated both for its beautiful scarlet blossoms and for table use. The pods have an approved flavor of their own, cooked as

snaps, when about three-fourths grown; the most popular of all string beans in England. The bean, which is very large, is handsomely variegated with dark purple and black, and is used by many green shelled.

Pkt., 10c; lb., 35c.

KING OF THE GARDEN LIMA—Larger pods and larger beans than the Large White Lima. Quite a favorite with market gardeners.

Pkt., 10c; lb., 30c.

Prices on all Beans liable to advance any time. Larger orders filled at prevailing market prices at time of shipping. Some varieties are not to be had; crops failed.

BEETS

For Table Use

The Beet is hardy, and may be planted as soon as the ground can be well prepared, doing best in rich, sandy soil, sown in rows of sixteen inches apart, covered one and one-half inches deep. The seed will sprout better if soaked twenty-four hours in warm

EXTRA EARLY ECLIPSE BLOOD TURNIP—An improved early kind, having a small top and taproot. The flesh is bright and dark red, tender, and sweet. It attains a good size without becoming woody, and is a good keeper.

Pkt., 5c; oz., 20c; 2-oz., 35c; ¼-lb., 50c; lb., \$1.25.

EARLY EGYPTIAN BLOOD TURNIP—Excellent for forcing, maturing early; of medium size, flattening on top; flesh deep red, fine grained, and sweet; best used when young.

Pkt., 5c; oz., 20c; 2-oz., 35c; ¼-lb., 50c; lb., \$1.25.



EARLY BLOOD RED TURNIP—A leading turnip-shaped variety, of medium size.

water before planting. Thin out by using the largest ones when they are of sufficient size, continuing until they are six or eight inches apart in the row. For field crop, the rows should be far enough apart to permit the use of a horse cultivator. rapid growth, not liable to become woody, keeps well. Flesh bright red, tender, and sweet.

Pkt., 5c; oz., 20c; 2-oz., 35c; ¼-lb., 50c; lb., \$1.25.

EDMAND'S EARLY BLOOD TURNIP—Dark red flesh, zoned with a lighter shade; very crisp and tender; keeps sufficiently well to be used as either a summer or winter variety; very desirable addition to the list of turnip-shaped sorts.

Pkt., 5c; oz., 20c; 2-oz., 35c; ¼-lb., 50c; lb., \$1.25.

DARK RED TURNIP—Has several attractive features, and is considered by some the best variety. Globular, smooth, handsome, uniform in shape, with small tops; it matures early and lasts long; flesh sweet, crisp, and tender. Superior for home use; a favorite with market gardeners and excellent for canning purposes.

Pkt., 5c; oz., 20c; 2-oz., 35c; ¼-lb., 50c; lb., \$1.25.

HALF LONG BLOOD RED—One of the very best for winter use; does not become woody, and keeps equally as well as the Long Dark Blood. The root is smooth and handsome, and the flesh as brilliant in color and good in quality as the best Blood Turnip varieties. We recommend our customers to give it a trial.

Pkt., 5c; oz., 20c; 2-oz., 35c; ¼-lb., 50c; lb., \$1.25.

BEETS—Continued

LONG SMOOTH DARK BLOOD—The leading late variety, keeping well all winter. Should be planted in rich, warm soil to secure rapid growth, which makes it tender. Top small, root long and smooth; flesh, deep purple; fine, and sweet.

Pkt., 5c; oz., 20c; 2-oz., 35c; ¼-lb., 50c; lbs., \$1.25.

SWISS CHARD SILVER or SEA KALE BEET—Cultivated exclusively for its leaves and leaf stalk, which are prepared and served similar to asparagus, and are tender and delicious. If cut frequently, the young leaves reappear and make excellent greens, taking the place of spinach.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

Beets for Stock Feeding

(25-lb. lots at buyer's expense for freight.)

DANISH SLUDSTRUP—This new Mangel comes highly recommended. Our seed is direct from the originator. We give his descriptions as follows: Long, reddish-yellow, grows well above the ground, and is easy to pull. Has repeatedly been awarded a first class certificate by the Danish government and is doubtless the best Mangel in the world.

Pkt., 5c; oz., 10c; ¼-lb., 30c; lb., 90c.

IMPROVED MAMMOTH LONG RED MANGEL WURZEL—An improvement on the Long Red Mangel Wurzel. Roots of more uniform shape; flesh darker in color and generally better relished by stock. Produces an enormous crop.

Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 85c.

YELLOW GLOBE MANGEL WURZEL—An excellent, large, orange-colored variety; very productive and a good keeper. Particularly adapted for growing on shallow soil.

Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., 90c.

YELLOW GIANT INTERMEDIATE, LE-VIATHIAN, OR GATE POST—An improved variation from Yellow Ovoid; smooth skin; sweet, firm flesh; heavy cropper and good keeper.

Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., 90c.

NEW MANGEL HALF SUGAR—A new variety, more valuable for feeding purposes than the old sorts, it being very much richer. In addition to this, the size and form have been improved until it yields as much per acre as the best Mangels. Roots large, very smooth, with few rootlets; creamy white in color, with medium sized tops.

Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., 90c.

GOLDEN TANKARD MANGEL WURZEL—Ovoid in shape, grows to a large size, and produces an astonishingly large crop. Flesh of a bright yellow, very nutritious, and said to be preferred by stock to any other. Can be grown successfully on shallower soil than Long Red Mangels, and is more easily gathered.

Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., 90c.

Beets for Sugar Making

FRENCH WHITE SUGAR RED TOP—Large and excellent. The flesh is of a fine grain, tender, and sweet. Rich in sugar, and very productive. Superior for stock feeding, and sometimes used for the table when young.

Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00.

LANE'S IMPERIAL SUGAR—An improved variety of the French Sugar Beet, recommended as being hardier and as containing more sugar than the old variety. Large and excellent for stock.

Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00.

VILMORIN'S IMPROVED WHITE SUGAR—A medium-sized white Sugar Beet, claimed to be the result of scientific selection from sugar-producing varieties. Uniform in size, form and color, and of a high percentage of sugar.

Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00.

KLEIN WANZLEBEN or GERMAN IMPERIAL WHITE SUGAR—This is the variety mostly grown in California, for use in the manufacture of sugar. It gives the best results raised in sandy soil free from alkali. It is very profitable as a Sugar Beet. Hardier and more easily handled than Vilmorin's.

Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00

Broccoli

Broccoli is a species of cabbage so nearly resembling the cauliflower as to be hardly distinguishable from it, being, however, taller, hardier, and more easily grown. Treatment and cultivation the same as for cauliflower.

EARLY WHITE FRENCH is the best variety. Vigorous and hardy; heads hard, white, compact, and durable.

Pkt., 5c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.50.

Brussels Sprouts

Cultivated for the small heads, which are very sweet and of excellent quality, growing in great numbers on the tall stem of the plant. Particularly valuable for our Washington climate, as a few plants will supply a constant succession during the whole season. Cultivate the same as cabbage.

DWARF, IMPROVED—The best. Produces abundantly. Break away the spreading leaves at the top of the plants when the sprouts begin to form.

Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; lb., \$1.50.

CABBAGE

Cabbage is the most universally cultivated of all garden vegetables, and will thrive in almost any soil, but, to bring it to the greatest perfection, the soil should be deep, rich and moist. For early use, sow in hot-

bed or cold frame in winter or very early in the spring. For general culture, sow in beds and transplant, the early varieties, late kinds, three or four feet apart each way.

CABBAGE—Continued



Early or Spring Varieties

EARLY JERSEY WAKEFIELD—The variety so popular in the New York market. Heads conical, of medium size, firm, very crisp, and tender. Early and a sure header.
Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.50; 1b., \$2.50.

COPENHAGEN MARKET—A splendid cabbage for home gardens. A new extra early globe-shaped cabbage slightly flattened. The large solid heads are very uniform, with few outer leaves; keeps well and stands handling. Copenhagen Market originated in Denmark, where it is the favorite market variety, and we recommend it to our customers as the best early round head. Gardeners should give it a trial. Our stock is direct from the originator.
Pkt., 10c; oz., 35c; 1b., \$4.00.

EARLY EXPRESS—A rapid grower, and held by some to be the earliest in cultivation. It resembles somewhat the Jersey Wakefield, but is rather larger, not quite so pointed, and of a more creamy tint. The heads are firm, tender, and of fine quality.
Pkt., 10c; oz., 25c; 2 oz., 45c; ¼ lb., 75c; 1b., \$2.00.

CHARLESTON or LARGE WAKEFIELD—Larger and a little later than the Early Jersey Wakefield, but having the same general shape, except that it is less pointed. A good sort for market gardeners.
Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.50; 1b., \$2.50.

EARLY YORK—A leading early kind. Being rather small, it can be set closer than most others. The heads form rapidly, and are very tender and sweet. Usually not quite as large as the Jersey Wakefield.
Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.50; 1b., \$2.50.

Second Early or Summer Varieties

HENDERSON'S EARLY SUMMER—A strong growing large header, somewhat conical in form; a better keeper (i. e., less liable to burst) than the average of early sorts.

Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.50; 1b., \$2.50.

EARLY WINNIGSTADT—A desirable kind, having conical, solid heads; a sure header under almost any condition; keeps



better and is less liable to suffer from blight, drought, or frost than most early varieties. Fine, and of excellent quality.

Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.50; 1b., \$2.50.

EARLY DRUMHEAD—A standard medium early variety. Heads large, round, slightly flattened and excellent for the family or market garden. It does not crack, and keeps till well on in the winter.

Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.50; 1b., \$2.50.

EARLY DWARF FLAT DUTCH—A medium early kind, much resembling the Early Drumhead. It grows low on the stem, and is a sure header; firm, fine grained, tender, and excellent. Keeps almost as well as the late kinds.

Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.50; 1b., \$2.50.

SUCCESSION—A medium early variety, producing large, round heads slightly flattened, which do not crack readily, and are solid and of excellent quality.

Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.50; 1b., \$2.50.

ALL SEASONS—Medium early, heads large, slightly flattened; grows low on the stem, and resembles the Early Summer, except that the heads are usually larger, of fine flavor, tender, and sweet, and superior for all purposes. It is also a good keeper, and can be used as a fall and winter variety.

Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.50; 1b., \$2.50.

Late Varieties

PREMIUM LATE FLAT DUTCH—A leading late variety. Produces large, round heads, flattened on top; heads sure to form, keeps well and of excellent flavor, tender, and sweet. One of the best late market kinds.

Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.50; 1b., \$2.50.

PREMIUM DRUMHEAD—An improvement on the Large Drumhead, grows lower on the stem, is larger, and matures earlier, but keeps quite as well, and has no superior in any respect for all family and

CABBAGE—Continued

marketing purposes, either for medium early or late crop. The seed we offer is unsurpassed by any in the market.

Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.50; lb., \$2.50.

SUREHEAD—Remarkable both for its certainty to head and its ability to withstand drought. Compact, medium to large.

Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.50; lb., \$2.50.

DANISH BALL-HEAD or HOLLANDER

—A very hard heading, late variety, enduring both frost and drought remarkably. Introduced from Denmark and rapidly gaining in popularity. Plants produce a solid, round head. Keeping qualities of the best.

Pkt., 10c; oz., 35c; 2 oz., 50c; ½ lb., \$1.75; lb., \$3.50.

MARBLEHEAD MAMMOTH DRUM-HEAD—The largest variety known, culti-

vated mostly on account of its enormous size, usually averaging thirty pounds, but sometimes attaining double that weight. It is hardy and a good keeper, but coarser and not as well flavored as most other kinds. Its common English name of Cow Cabbage indicates one of the uses of this variety.

Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.50; lb., \$2.50.

RED DUTCH—Form a small, round, solid head of a deep red or purple color. Hardy and keeps well; used mostly for pickling and salads.

Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.50; lb., \$2.75.

DRUMHEAD SAVOY—A large and firm variety of fine quality, leaves very much crinkled. The flavor is very much improved by a light frost.

Pkt., 10c; oz., 25c; 2 oz., 45c; ½ lb., \$1.75; lb., \$3.00.

CARROTS



Sow as soon as the ground can be thoroughly prepared, in rows fifteen inches apart, and, when well up, thin to from four to six inches apart, according to the kind you are growing. The seed germinates slowly, requiring sometimes three weeks for the young plants to appear. To get a start of the weeds, soak the seed a day or two in tepid water, and roll it in sand, plaster, or wood ashes before sowing, or let the ground lie several days after it is prepared for the seed, when the weeds can be killed. The soil should be rich and loose, and it will produce smoother carrots if it is manured the year previous. Sow three pounds to the acre or one ounce to one hundred and fifty feet of row.

EARLY FRENCH FORCING HORN—The earliest, quickest growing, and best for forcing. The root is thick, but very short; flesh deep orange, fine grained, and excellent; best for the table when not quite mature.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.00.

EARLY SCARLET HORN—The best early kind for general use. It is larger than the forcing variety, but fully as good in quality, and produces a much larger crop.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.00.

OX-HEART or GUERANDE—A new variety, having a small top, but rather large, thick, heart-shaped root. The flesh is deep orange, fine grained, and excellent, for either the table or stock feeding.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.00.

CHANTENAY—For table use, one of the best in shape and finest in quality; half long uniformly stump rooted, and smooth; color deep orange red; flesh crisp and tender. Early and a heavy cropper.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.00.

DANVERS ORANGE, HALF LONG—In form about midway between Long Orange and Short Horn. It is of a rich, dark orange color, very smooth and handsome, and easier to dig than most carrots. First class in every respect, both for the garden and field crop.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.00.

FINEST LONG ORANGE—The leading large, scarlet-fleshed variety, grown extensively for stock feeding, as well as for table use. For size of root, quality of flesh, and quantity of crop it has no superior. Requires a deeper soil than the short and half-long kinds.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.00.

LARGE WHITE BELGIAN—Extensively grown for stock feeding. The most productive of all. Grows much above ground, so that the entire crop can be pulled by hand. The White Belgian has recently been much improved, in the same manner as the Finest Long Orange, and is now larger and of finer quality than formerly. The stock we offer has no superior.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.00.

SHORT THICK WHITE—Half-long thick, smooth, very productive, the heavier part above ground, the root tapering to the point, flesh of good flavor, white, solid, and crisp.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.00.

CAULIFLOWER

The cauliflower belongs to the cabbage family, and, from its superior qualities as a table vegetable, is a prime favorite. To insure success, a rich, moist soil should be selected. For early crop, start in hotbed; for later use, sow in open ground, transplanting to fifteen inches apart, in thirty-inch rows. Cultivate thoroughly, hilling up the earth around the stalks at each hoeing and water well while the heads are forming.



EARLY SNOWBALL—By many considered one of the best varieties. A sure header, producing handsome, round, firm heads, of excellent flavor and quality

Heads large, mature early, and keep well all winter.

Pkt., 10c; oz., \$3.00; 2 oz., \$5.00; ¼ lb., \$8.00.

EXTRA EARLY DWARF ERFURT—Very dwarf, sure to head, and the earliest. The heads are of good size, pure white, very solid, of excellent quality, and delicate flavor.

Pkt., 10c; ¼ oz., 60c; oz., \$2.00; ¼ lb., \$6.50.

DANISH GIANT—Dry weather Cauliflower. Danish Giant is an early, large solid white Cauliflower that can successfully withstand a drouth that would prove fatal to other varieties, and will thrive in dry sections, but like all cauliflower must have rich soil and cultivation to give best results. Danish Giant can also be grown under moist conditions, and is a dependable market variety.

Pkt., 10c; oz., \$3.00; 2-oz., \$5.00; ¼-lb., \$8.

EARLY FAVORITE—A certain header; large, white heads; tender and delicately flavored. A standard variety for early or late crop, and a good keeper.

Pkt., 5c; oz., 65c; 2 oz., \$1.25; ¼ lb., \$2.00.

LENORMAND'S SHORT STEM—One of the largest and most reliable for general cultivation. The heads are well protected by leaves, so that it is particularly valuable for growing in dry, hot localities.

Pkt., 10c; oz., 70c; 2 oz., \$1.25; ¼ lb., \$2.25.

LARGE ALGIERS—Upright, large, a sure header; heads well protected by leaves in the event of frost; has no superior in quality as a late variety.

Pkt., 10c; oz., 70c.

CELERY

The seed germinates slowly, and should be started in rich, mellow, open beds, in rows, to avoid crowding the young plants, and more easily keep them free from weeds. When two or three inches high, transplant to furrows, and when eight to ten inches high, fill up the furrows, continuing at in-



tervals to hill up till fully matured and blanched, taking care not to get earth between the stalks. The vigor and quality of the stock are improved by partially topping when transplanting. Cultivate thoroughly, and keep well watered.

GIANT PASCAL—A new variety. It is large and of unusually rapid and vigorous growth. The stalks are easily blanched, firm, crisp, and tender, of a beautiful golden tint, and possessing in a high degree the rich, nutty flavor which is the chief characteristic of superior quality in this popular salad plant. Our stock is the very best in the market.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.50.

GOLDEN SELF-BLANCHING—A variety somewhat resembling the White Plume, and, like it, requiring but little earthing up to secure perfect blanching. It is of a rich golden tint when ready for the table; very handsome and of excellent quality.

Pkt., 5c; 25c.

GOLDEN-HEARTED DWARF—A new variety of great value; splendid keeper, remarkable for its fine quality. Heart of bright golden color.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.50.

LARGE WHITE SOLID—A standard variety, and one of the largest. A strong, vigorous grower, crisp, tender and of good flavor; firm and keeps longer than most others.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.50.

WINTER QUEEN—This is the most valuable variety of Celery ever introduced. Has double the amount of heart of any known Celery. Ribs perfectly solid, crisp and of delicious nutty flavor.

Pkt., 5c; oz., 30c; 2 oz., 50c; ¼ lb., 75c.

CELERY—Continued

WHITE PLUME—A new variety; popular on account of its naturally white leaf stalks, which require less blanching than other kinds. Tie the tops together, and hill up the earth slightly. Its handsome, plume-like top is very ornamental on the table. It is quite early and a fine market sort.

Pkt., 5c; oz., 20c; 2 oz., 35c; $\frac{1}{4}$ lb., 65c; lb., \$1.75.

DWARF WHITE SOLID—Remarkable for its keeping qualities. A standard variety of good flavor, solid, and crisp. Being dwarf, it can be planted closer together than most other kinds.

Pkt., 5c; oz., 20c; 2 oz., 35c; $\frac{1}{4}$ lb., 60c; lb., \$1.50.

CELERY SEED, FOR FLAVORING—Seed used for flavoring soups, stews, pickles, etc.

2 oz., 10c; $\frac{1}{4}$ lb., 15c; lb., 50c.

CELERIC or TURNIP-ROOTED CELERY—A variety having turnip-shaped roots, which are used principally for seasoning meats and soups; also used for salads.

Large Smooth Prague.

Pkt., 5c; oz., 20c; 2 oz., 35c; $\frac{1}{4}$ lb., 60c; lb., \$1.50.

Chervil

A sweet, aromatic plant, used as a salad while young and tender, also as parsley

for garnishing, seasoning soups, etc. Sow thinly early in spring in drills a half inch deep and one foot apart; as the plants grow, they may be thinned out, or transplanted, if desired.

CURLED—The principal variety grown.

Pkt., 5c; oz., 15c; 2 oz., 20c; $\frac{1}{4}$ lb., 30c; lb., \$1.90.

Chicory

Extensively used to adulterate coffee, and as a substitute for it. The culture is the same as for carrots. Dig at about the same time as carrots, wash, slice and dry by artificial heat. The blanched leaves are used by some for salad.

LARGE ROOTED or COFFEE—The best kind.

Pkt., 5c; oz., 50c; 2 oz., 90c; $\frac{1}{4}$ lb., \$1.50; lb., \$4.50.

Collards

A species of cabbage, known also as Cole, or Colewort, grown throughout the South for greens. Sow in autumn, in rows a foot apart, and treat the same as cabbage.

TRUE GEORGIA or SOUTHERN—The leading and best variety.

Pkt., 5c; oz., 15c; 2 oz., 20c; $\frac{1}{4}$ lb., 30c; lb., \$1.90.

CORN, SWEET OR SUGAR

(Prices subject to market changes. Add postage if by mail.)

Corn thrives best in warm, rich soil. The smaller varieties may be planted ten inches apart in drills made two and a half feet apart. The larger kinds should be planted a foot apart in drills made three and a half feet apart, or may be planted in hills three and a half feet apart each way, allowing three or four stalks to remain in a hill; the latter is the usual way, though in drills the product is greater per acre. Success can only be secured by thorough cultivation.

PEEP O' DAY NEW SWEET CORN—Ten days earlier than any other; sweet, early, productive. You will not be disappointed in this New Sweet Corn. Recently introduced. Has pleased everyone who has tried it. For flavor, sweetness and productiveness it is ahead of any other early white sweet corn. It will prove a money maker for the market gardener, and a valuable addition to our list of corn for our short western summers.

Pkt., 10c; lb., 25c.

GOLDEN BANTAM—Is one of the earliest and hardiest sort in the market, can be planted earlier than any other sort and being of dwarf habit, can be planted closer. The color is a rich creamy yellow and has a fine nutty flavor.

Pkt., 10c; lb., 25c.

MAMMOTH WHITE CORY—A large and excellent early sort. Each stalk produces two or more handsome, twelve-rowed ears of large, white grain, of a quality superior to most early sorts.

Pkt., 10c; lb., 20c.

WHITE COB CORY—An improvement on the Red Cobbed Cory, as well as being equally early. The ears are larger, and it has the further advantage of having both a white cob and white grain. A splendid market garden variety, and excellent for the table.

Pkt., 10c; lb., 20c.

EARLY MINNESOTA—One of the earliest kinds of sweet corn. The ears are of the best quality; it is very productive. A popular early variety.

Pkt., 10c; lb., 20c.

EARLY, SWEET or SUGAR—Excellent for general crop. Medium early, remaining in condition for the table a long time, tender and sweet.

Pkt., 10c; lb., 20c.

PERRY'S HYBRID—A new variety; stalk of medium height. The ears are large, and grow low on the stalk. Kernels large, very white, tender and sweet.

Pkt., 10c; lb., 20c.

CORN, SWEET OR SUGAR—Continued

STOWELL'S EVERGREEN—Remarkable for remaining a long time in a fresh condition, suitable for the table. Hardy and productive, tender and sugary, and the best late variety for general use.

Pkt., 10c; lb., 20c.

EARLY EVERGREEN—An improvement on Stowell's; similar in appearance and general character, but a week or ten days earlier, and remaining fit for use somewhat later than that well-known sort; equal to Stowell's in all other respects.

Pkt., 10c; lb., 20c.

BLACK MEXICAN—One of the sweetest and best for the table. It is remarkably productive and well suited to a warm climate. It is white and beautiful when in condition for cooking, but the kernels are bluish-black when ripe. Said to be less subject to the attacks of worms than other sweet kinds.

Pkt., 10c; lb., 20c.

COUNTRY GENTLEMAN — A large-eared, late variety of sweet corn, of delicious quality.

Pkt., 10c; lb., 25c.

EXTRA EARLY ADAMS—A very early variety, not strictly a sweet corn, but white and tender, and extensively used for the table.

Pkt., 10c; lb., 20c; 10 to 25 lbs., 18c per lb.

COMMON SWEET—Used for general field crop for fodder. Sometimes sown thinly broadcast, but usually planted in hills or drills. Write for price.

Field Corn

Add sufficient to pay carrying charges if sent by mail or express prepaid.

EARLY RED BLAZED or KING PHIL-LIP—An early, hardy variety, enduring considerable cold. Stalks of medium height, having few suckers. The ears are long, eight rowed, and well filled. Kernels bright yellow at the base, shading into red at the tips.

Pkt., 10c; lb., 10c.

EARLY CANADA or YELLOW FLINT—A rapid-growing early yellow kind, and on this account much used for replanting. Superior where the seasons are short.

Pkt., 10c; lb., 10c.

EARLY WHITE FLINT — A variety much used for making hominy. Productive early, and of beautiful appearance.

Pkt., 10c; lb., 10c.

IMPROVED LEAMING—YELLOW DENT—Ears nine to twelve inches long, eighteen to twenty rows; grains long and wedge shaped, indented at the outer end. Color rich yellow; small red cob. For general crop unsurpassed.

Pkt., 10c; lb., 10c.

PRIDE OF THE NORTH, YELLOW DENT—A very early Dent variety, thriving where there are cold, short summers. Ears and kernels handsome yellow.

Pkt., 10c; lb., 10c.

CHAMPION WHITE PEARL—A large, white late Dent variety, pearly white kernels.

Pkt., 10c; lb., 10c.

RED COB FODDER CORN—Very rank growing. Produces an abundant crop for silo purposes. We have the same also as White Cob Fodder Corn.

Pkt., 10c; lb., 10c.

MINNESOTA KING (Yellow Dent)—Smallest cob and largest grain. The ears are well filled out. A golden yellow.

Pkt., 10c; lb., 10c.

MINNESOTA N. 13 (Yellow Dent)—Of great yield, producing large ears. Height, 7 feet. Vigorous growth with heavy foliage.

Pkt., 10c; lb., 10c.

Corn, Broom

IMPROVED EVERGREEN—An improvement on the common Evergreen. The result of many years' careful selection. Does not grow as tall as the old variety. The brush is fine, and of a light green tint.

Pkt., 10c; lb., 15c;

Cress

The leaves, when young, have a warm, pungent taste, and are used as salad, either alone or mixed with other salad plants. The seed germinates quickly, and the plants grow rapidly. As they are milder and more tender when young, the seed should be sown at intervals of ten to fifteen days, making the first sowing as soon as the ground can be prepared. May be cut several times.

CURLED or PEPPER GRASS—The best garden variety.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 75c.

Cress, Water

A delicate, pungent salad plant, very agreeable alone or mixed with other salads. Entirely distinct from common cress, thriving only where its roots are submerged. Sow the seeds thinly along the banks of any shallow stream, early in spring. It will increase rapidly, if the conditions are favorable, and reappear every spring, with no further attention, being a hardy aquatic plant.

Pkt., 5c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00.

CUCUMBER

Cucumbers need a warm, sandy soil, and should not be planted in open ground until the weather is settled and warm, as they will not thrive until the ground is thoroughly warmed. Plant in hills four feet apart each way, thinning to three or four of the strongest plants, after danger from insects is passed. Sprinkle the young plants with fine ashes, plaster, or air-slaked lime, to protect them from bugs.

EARLY or PEERLESS WHITE SPINE—Even in shape at both ends, and uniform in size and color. In great demand for pickling, being the variety almost uni-

versally grown for the pickle factories of Seattle. Also a fine market and table sort.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.00.

EARLY SHORT GREEN or EARLY FRAME—A vigorous and productive variety, producing fruit of medium size and regular form; flesh crisp and tender; excellent for the table, or for pickling, while small.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.00.

CUCUMBER—Continued



DAVIS PERFECT—The best forcing cucumber in the market. It is dark, glossy green, of slim and symmetrical shape, growing about 10 to 12 inches long. It is a fine shipping cucumber and is not liable to disease.

Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 35c; lb., \$1.00.

COOL AND CRISP—Related to White Spine, but longer and more pointed at the ends. Especially tender and crisp, and a favorite for the table.

Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; lb., \$1.00.

CHICAGO PICKLING—A prolific bearer, fruit of medium size, rather pointed at the ends, bright green, and of good quality, especially for pickling.

Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; lb., \$1.00.

EARLY CLUSTER—A productive early kind. The fruit, which is not large, is borne in clusters and is crisp and of good flavor.

Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; lb., \$1.00.

EXTRA LONG GREEN—Another good variety, tender and crisp; green, long and slim.

Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; lb., \$1.00.

SMALL GHERKIN—A distinct variety, not strictly a cucumber; fruit very short, but rather thick; used only for pickling.

Pkt., 5c; oz., 25c; 2 oz., 35c; $\frac{1}{4}$ lb., 60c; lb., \$2.00.

JAPANESE CLIMBING—A sort of pole cucumber, its name being due to its origin and its tendency to climb and bear its fruit up from the ground, if afforded support; fruit large and thick.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

EGG PLANT

The egg plant, though not universally grown, is fast winning its way to more general use, and, properly served, is a most excellent dish. It will grow in any good garden soil, but the best results are obtained in a deep, rich, warm loam. The seed germinates slowly, and should be started in a hotbed, or well-protected warm place, kept very moist. Do not transplant till the weather is settled and the ground thoroughly warm. It thrives with the same treatment as that given the tomato.

EARLY LONG PURPLE—Fruit rather long, usually largest at the blossom end; a hardy kind, productive, and a good quality.

Pkt., 10c; oz., 35c; 2 oz., 65c; $\frac{1}{4}$ lb., \$1.20; lb., \$4.50.

EARLY ROUND PURPLE—Fruit large, oval round, deep purple, tender, and excellent. Desirable for the family or market garden.

Pkt., 10c; oz., 45c; 2 oz., 80c; $\frac{1}{4}$ lb., \$1.50; lb., \$3.50.

LARGE NEW YORK IMPROVED PURPLE—Similar in form to Early Round Purple, but a little later. Fruit large, of good quality and produced abundantly.

Pkt., 10c; oz., 45c; 2 oz., 80c; $\frac{1}{4}$ lb., \$1.50; lb., \$6.00.

BLACK PEKIN—Oval round, of medium size, very dark, glossy and handsome. Flesh delicate and excellent. Prized for the family garden.

Pkt., 10c; oz., 40c; 2 oz., 75c; $\frac{1}{4}$ lb., \$1.25; lb., \$4.50.

ENDIVE

The garden Endive is much cultivated in Europe for winter salad. It is bitter until properly blanched, when it makes a fine salad, and is also used for greens. Sow at any time during spring, or later for winter use, in drills a foot apart. Thin from ten to twelve inches apart. Keep the ground clear of weeds until the plant has attained its full size, when it is blanched by gathering the leaves and tying them by the tips in conical form. The light and air are thus excluded from the inner leaves, which will be blanched in two or three weeks.

GREEN CURLED—The hardiest variety; dark green, beautifully curled leaves, crisp and tender.

Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

WHITE CURLED—Coarser and less tender than Green Curled, but very attractive on account of its color, even the outside leaves being very light colored, often white.

Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

BROAD-LEAVED BATAVIAN SCAROLLE—Has broad, thick leaves, which form a large, loose head. Fine for soups and stews. If blanched, by tying the outer leaves together, it makes an excellent table salad.

Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

KALE OR BORECOLE

Kale, or Borecole, is a kind of cabbage that does not form a close and solid head, but a cluster of beautifully curled or wrinkled leaves, that are tender and of excellent flavor. It requires the same treatment as cabbage, and is very hardy, being improved by frost.

COW or THOUSAND HEADED KALE—

Recommended by agricultural colleges, granges and dairymen who have tested it as one of the most valuable forage plants for this Coast. It grows rapidly and produces a mass of thick, curly green leaves, rich and succulent, which are eagerly eaten by sheep, cattle and horses. Especially recommended for green feed during the dry summer months. Sow in drills two or three feet apart, 4 pounds to the acre and thin out as needed. Makes the most rapid growth if sown in the early spring, but can be sown in summer and fall for winter feed. Will stand light freezing. Stalks can be cut off, or the larger lower leaves broken off, leaving the tops to grow.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., postpaid, 50c.

TALL GREEN CURLED SCOTCH—Produces and abundance of dark green, curled leaves. Very hardy. The leading variety.

Pkt., 5c; oz., 20c; 2 oz., 35c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

DWARF GREEN CURLED or GERMAN GREENS—A dwarf variety, finer and more compact than the Scotch. Can be sown in the fall for use early in the spring.

Pkt., 5c; oz., 20c; 2 oz., 35c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

DWARF GERMAN PURPLE—A variety much prized by the Germans, and similar to German Greens, except that it has a deep purple tint. Very handsomely curled and

of good quality. Also hardy, and can remain in the garden all winter.

Pkt., 5c; oz., 20c; 2 oz., 35c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

KOHLRABI

Kohlrabi is a vegetable partaking somewhat of the nature and flavor of both the cabbage and turnip. The stem, just above the ground, swells into a bulb resembling a turnip, which is the edible part. It should be cut for the table before it is fully grown, as it becomes tough and stringy if allowed to grow too long. Sow as soon as the ground can be prepared, in drills, the same as turnips. Thin to six inches in the row, or transplant like cabbage.

EARLY WHITE VIENNA—Best table sort; pure white, medium-sized bulbs.

Pkt., 10c; oz., 25c; 2 oz., 40c; $\frac{1}{4}$ lb., 75c; lb., \$2.50.

LEEK

The leek belongs to the onion family, and, on account of being milder and less pronounced in flavor, is preferred by many for soups and stews. It is very hardy, and may be sown as soon as the ground can be prepared, in drills fifteen inches apart, covering one inch deep.

LARGE ROUEN, or AMERICAN FLAG

A large, strong-growing variety, of good quality, and hardy. The leading market kind.

Pkt., 5c; oz., 25c; 2 oz., 45c; $\frac{1}{4}$ lb., 80c; lb., \$2.50.

MONSTROUS CARENTON—Rather larger than the Flag, and very tender and mild, on account of its rapid growth.

Pkt., 5c; oz., 25c; 2 oz., 45c; $\frac{1}{4}$ lb., 80c; lb., \$2.50.

LETTUCE

Lettuce will thrive in any good garden soil, and requires so little care that all who have the ground at their disposal should raise enough for their own use, and especially as the quality depends almost entirely on its crisp freshness. When severe frosts prevail, it may be sown under cover in fall, and transplanted, and in milder localities as soon as the soil can be thoroughly prepared, in open ground, in drills fifteen inches apart. Thin out by using the larger plants as soon as of sufficient size, and so continue until the crop is exhausted. Keep the ground moist and loose, and the bed free from weeds.

NEW YORK—This is the mammoth head lettuce so popular in California from whence it is shipped to the Northern markets, arriving in splendid condition. The immense heads are solid, heavy, beautifully blanched to a creamy white with bright green outer leaves. The quality is unsurpassed, being tender, crisp and sweet. New York is a hardy, rapid grower, deep rooted and resistant to drought; a slow seeder and sure to head.

Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., \$1.00; lb., \$3.00.

EARLY TENNIS BALL, SEED BLACK

The plant is small, of rapid growth and should be used as soon as large enough, as it quickly runs to seed. Solid head, leaves dark green, thick and crisp. One of the best for growing under cover and for forcing.

Pkt., 5c; oz., 15c; 2 oz., 20c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

BLACK SEEDED SIMPSON'S—An excellent variety, and not as generally grown

as its merits justify. It has all the good quality of Simpson's Early Curled, which it resembles, but is larger, lighter colored, and the leaves are less curled. It is one of the tenderest and sweetest, and remains so longer than most other kinds.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 25c; lb., \$1.00.



EARLY PRIZE HEAD, SEED WHITE

An early variety, not strictly forming a head, but a dense cluster of beautifully bronzed leaves, that are remarkably tender and sweet. Slow to run to seed, remaining long in condition for the table. Too deli-

LETTUCE—Continued

cate and tender for market gardening, but for family use, where it can be taken from the garden and immediately prepared for the table, it has no superior.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

BIG BOSTON, SEED WHITE—A splendid winter variety in the South, and a large header; in the North a favorite forcing sort; leaves broad, smooth and tender. Its all-around excellence makes it a popular market variety.

Pkt., 5c; oz., 10c; 2 oz., 20c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

SIMPSON'S EARLY CURLED, SEED WHITE—A leading market variety, used for very early planting and forcing. Forms a dense mass of finely curled and wrinkled leaves that are excellent and tender, and do not wilt readily.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

SAN FRANCISCO MARKET, BLACK SEED—Large, solid heads, bearing transportation well. Color beautiful medium light green; opens very white; tender and sweet. Undoubtedly a desirable acquisition as a market or family variety.

Pkt., 5c; oz., 15c; 2 oz., 20c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

LARGE HANSON, SEED WHITE—This variety forms the most perfect heads of any. They are small, creamy white inside, and very tender, but should be used young,

as they are liable to become bitter with age, or when they mature slowly. An excellent market kind, longer in running to seed than any other.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

LARGE DRUMHEAD, SEED WHITE—A leading market variety, and one of the largest heading kinds, but the heads are not as solid as the Hanson or Deacon. It is slow running to seed, white, crisp and tender.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

GRAND RAPIDS, SEED BLACK—A large, attractive variety that matures early, a favorite with market gardeners for keeping in good condition longer after being cut than other sorts. Fine for greenhouse forcing.

Pkt., 5c; oz., 15c; 2 oz., 20c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

WHITE PARIS COS or ROMAINE, SEED WHITE—A distinct variety, forming oblong, upright heads, largest near the top. It is hardy, tender and crisp, and does not run to seed as quickly as some other Cos varieties, of which it is generally considered the best.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 30c; lb., \$1.00.

MELON, MUSK

The melon is so universally grown, and so justly popular, that it requires but little description. Of semi-tropical habit, it comes to its full state of perfection in the rich, sandy loams and warm valleys of the Pacific Slope and Southern States. Under the above head all the green and yellow-fleshed Cantaloupes and Nutmeg Melons are classed.



Green-Fleshed Kinds

EARLY JENNY LIND—A small, very early variety, flattened at the ends, medi-

um to small in size. The flesh is very sweet and juicy.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 25c; lb., 75c.

SMALL GREEN NUTMEG—A variety resembling the Jenny Lind, and ripening nearly as early. The flesh is fine and very sweet. Superior for the early market or family garden, and a favorite for hotels and restaurants.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 25c; lb., 75c.

EXTRA EARLY HACKENSACK—A variation from the last preceding, much favored by some; coarser netting and deeper ribs. Green flesh, sweet and juicy.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 25c; lb., 75c.

EARLY BALTIMORE or ACME—A good-sized oval-round, very desirable variety. The flesh is thick, highly flavored and sweet. Popular in the markets of the Eastern and Southern cities.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 25c; lb., 75c.

LARGE NETTED CANTALOUPE—A rather large variety, medium early, of excellent quality; desirable either for the family or market garden.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 25c; lb., 75c.

MELON, MUSK—Continued

NETTED GEM or ROCKY FORD—A kind that has attained great popularity; on the small or basket melon order. Shape oval, very sweet, with exceedingly smooth-grained flesh. Slightly ribbed and covered with coarse netting.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

LARGE GREEN NUTMEG—An improved variety of the old Green Nutmeg; has all its good qualities, combined with larger size, thicker and firmer flesh, and a more vigorous vine. About as early as the Large Netted Cantaloupe, which it resembles.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

GOLD LINED ROCKY FORD—A new melon from Rocky Ford, Colo., of a fine uniform shape and without ribs, slightly oval, meat thick, green and light gold toward center. An extra fine melon.

Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.75.

HACKENSACK—A large, prolific variety, growing in favor; oval round, flattened at the ends, deeply ribbed and netted. The flesh is delicious, juicy and sweet. A good market kind.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 85c.

BAY VIEW—Fully as large as the Casaba, but a handsomer melon, ripening earlier. The flesh is rich and melting, and will ripen well if taken from the vine a little green, which makes it one of the best market kinds.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

Yellow or Orange-Fleshed Varieties

EARLY YELLOW CANTALOUPE

—Similar to the Surprise, but usually larger, not ripening quite as early, and deeper ribbed. Good for the family or market garden.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 85c.

PETOSKEY or PAUL ROSE—A sweet, yellow-fleshed melon, somewhat resembling the Netted Gem in size and appearance; firm, oval in form, of fine quality and flavor.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c.

OSAGE or MILLER'S CREAM—Medium size, shallow ribs, and thin netting; color deep green; flesh a decided salmon in color, and good clear down to the rind.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 85c.

MELON, WATER

The watermelon, in its origin and habits, is similar to the muskmelon, and should receive the same cultivation and treatment, except that the hills should be farther apart.

PHINNEY'S EARLY—A valuable early kind, producing an abundant crop. Rather long, rounded at the ends; it is mottled with stripes of dark and light green; thin, firm rind; flesh of excellent grain and quality.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 75c.

ICE-CREAM or PEEBLESS—Rind pale green, mottled, nearly round; flesh bright scarlet, very sweet and delicious; excellent for the family garden. A standard variety.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 75c.

LODI or SAN JOAQUIN—A great producer, and very popular in California. Cylindrical shape; uniform medium size; rind yellowish green, thin, and firm; seeds large, ashy white; flesh dark pink, firm, ripening well to the core, sweet and delicious. It holds its place in the market after being tested for many years.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 75c.

FLORIDA FAVORITE—Large and long. Mottled dark green, with lighter stripes. Rind firm; flesh deep red. Popular in the South generally.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 75c.

COLE'S EARLY—Takes almost first place as a favorite in the east. Large, handsome, and a good shipper. In color, bright mottled green; in form, almost oblong, its thickness about two-thirds the length. Flesh bright red, firm, crisp and sweet.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 90c.

KOLB'S GEM—Very large, oval shaped deeply mottled; vines vigorous and remarkably productive. Flesh bright scarlet, solid, and sweet. Rind thin, but very firm. Can be safely shipped long distances.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 75c.

GIPSY or SOUTHERN RATTLESNAKE

—Above the average in size, a strong grower and good bearer, mottled and striped dark and light green; long, rather square at the ends; firm rind; flesh deep scarlet, of excellent grain and quality; ships well, and is a good market or family garden variety.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 75c.

DIXIE—This is a new melon of excellent quality. Flesh red and tender, ripening evenly and all good; size medium to large; skin dark green, beautifully mottled, and very attractive. A heavy cropper, and fine for shipping or home use.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 75c.

MELON, WATER—Continued

KLECKLEY'S SWEETS or MONTE CRISTO—A strong-growing and prolific variety; medium size; skin mottled in dark and light green stripes; flesh red, tender, and sweet. Not firm enough for shipping long distances.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 20c; lb., 75c.

DARK ICING or ICE RIND—A distinct variety, resembling in size and shape the Peerless or Ice-Cream, but is lighter in color, and faintly mottled. The rind is not thick, but rather firm. The flesh is remarkably juicy, sweet, and delicious.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 20c; lb., 75c.

CUBAN QUEEN—The largest variety known, having attained a weight of one hundred pounds in California. Oval round, dark and light green mottled stripes of pronounced shade; vines not large, but vigorous; flesh deep scarlet and firm, ripening well to the core. A good shipper for so large a melon.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 20c; lb., 75c.

BLACK SPANISH—A round melon of medium size; rind very dark green, thin, but firm; seeds black. The flesh is deep scarlet, firm, with no hard center, and is remarkably sweet and delicious. One of the best for the family garden; also much used for marketing.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 20c; lb., 75c.

MUSHROOMS

The mushroom is an edible fungus that does not produce seed, but is propagated from the white fibers, resembling roots, that spread from the base of the stool, termed spawn. It is grown in out-buildings, cellars, caves, or wherever a uniform temperature of 60 degrees to 70 degrees can be maintained. Make beds of fermenting manure, which should be large and deep enough to acquire a heat of about 70 degrees. When at the proper temperature, insert bits of spawn at intervals. As soon

as signs of growth appear, place two inches of soil over them, and cover all with straw. Water is used, if necessary, which should be warmed to the temperature of the bed. Mushrooms appear in six or eight weeks and should be collected when at the proper size for the table. More complete directions are contained in each box.

ENGLISH—1-lb. bricks, each, 40c prepaid.

PURE CULTURE—Spawn in bricks at 50c per lb., prepared.

MUSTARD

A hardy pungent plant, highly esteemed by many as an appetizing salad, for which purpose it should be cut when two or three inches high. It is also used, when larger, as greens. The seed has an extensive sale, and is used in its natural state and prepared. It should be sown in rich or mellow soil, as early as the ground can be well prepared, in drills fifteen inches apart.

SOUTHERN GIANT CURLED—Highly esteemed in the South, where it is sown in the fall, and produces enormous bunches.

Excellent for salad, and very generally used for greens, for which it is largely cultivated.

Pkt., 5c, oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 25c; lb., 90c.

YELLOW CALIFORNIA or WHITE ENGLISH—Leaves mild, tender when young, and generally preferred for salad. The seed, which is light yellow, is largely used with pickles and in salads.

Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 75c.

OKRA OR GUMBO

Extensively grown in the Southern States and California, where it may always be seen in the markets, either green or dried. Its peculiarly ribbed seed pods are much used in soups, and may be stewed and served as asparagus.

DWARF—Best for general crop. The plant is dwarf, but the pods are as long as the larger-growing kinds, and are produced much more abundantly.

Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 20c; lb., 60c.

ONIONS

Onions can be successfully grown on almost any soil that will produce a full crop of corn; land that has been cultivated with hoed crops and kept free from weeds and well manured for two years previous is very much preferred. Manure evenly at the rate of about fifty cartloads to the acre; the manure must be thoroughly mixed with the soil and all well pulverized. Sow, as soon as the ground can be prepared, about one-half inch deep, and keep perfectly free from weeds.



LARGE RED WETHERSFIELD—A standard variety, one of the most productive kinds, even on poor soil. Its good keeping qualities render it one of the best for shipping. Large, slightly flattened, deep purplish red. Flesh coarser and stronger than the Early Red Globe, but rich and nutritious.

Pkt., 10c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

GIANT WHITE ITALIAN TRIPOLI—Resembles somewhat the American White Portugal, but is much larger. It is flat, pure white, mild, and of good flavor.

No stock.

AUSTRALIAN BROWN—Beautiful yellowish brown in color, slightly globular in shape, of good size, and mild flavor. Decidedly the hardest, most solid, and longest-keeping onion yet offered to the public.

Pkt., 10c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

YELLOW GLOBE DANVERS—A uniformly globe-shaped, handsome variety; bright color; long keeper and heavy yielder.

Pkt., 10c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

YELLOW DANVERS—The leading large yellow kind, round, slightly flattened flesh fine grained, rather mild, very rich and

sweet. One of the best keepers and shippers, and one of the most productive kinds.

Pkt., 10c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 45c; lb., \$1.50.

SPANISH KING or PRIZE TAKER—An immense light golden-yellow onion, originating in Spain; recently sprung into great popularity; very attractive.

Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 75c; lb., \$2.00.

WHITE PORTUGAL or AMERICAN SILVER SKIN—A large, flat, Silver-white onion, mild in flavor, and very handsome. A great favorite for use when young as salad and for pickles. It is a good keeper, and fine for fall and early winter use.

Pkt., 10c; oz., 25c; 2 oz., 45c; $\frac{1}{4}$ lb., 80c; lb., \$2.50.

WHITE GLOBE—A handsome, white globe-shaped variety; flesh fine, very white, rich, and sweet. It is also one of the best keepers of the silver-skinned kinds.

Pkt., 10c; oz., 25c; 2 oz., 45c; $\frac{1}{4}$ lb., 80c; lb., \$3.00.

MAMMOTH SILVER KING—An immense white onion of mild flavor, very thick through, but inclined to be flat rather than globe-shaped.

Pkt., 10c; oz., 25c; 2 oz., 45c; $\frac{1}{4}$ lb., 80c; lb., \$3.00.

EL PASO or LARGE MEXICAN—One of the largest onions grown, frequently attaining a weight of three pounds or more. Color mostly white, but sometimes tinged with yellow and red. Flesh rather coarse, but of excellent flavor, mild, rich, and sweet. Very popular in Mexico, where it is the leading variety grown.

QUEEN—White, early, handsome, and a good keeper. If sown thick, produces small, very firm bulbs, the best of all for pickling; if given more room, matures an excellent onion that will keep all winter.

Pkt., 10c; oz., 25c; 2 oz., 45c; $\frac{1}{4}$ lb., 80c; lb., \$3.00.

EARLY BERLETTA—Small white, said to be the earliest of all; quite similar to the Queen.

Pkt., 10c; oz., 25c; 2 oz., 45c; $\frac{1}{4}$ lb., 80c; lb., \$3.00.

ONION SETS

BOTTOM ONION SETS—Are grown from seed that has been sown too thick to attain a large size. The small onions thus obtained are planted out, and are ready in a short time to pull as green onions for the table or bunched for the market. If left to stand, they make ripe onions of the best quality and come to maturity some six weeks earlier than a crop grown direct from the seed. Yellow sets are most in demand, but Red and White are used to some extent. Sow forty to sixty pounds of black seed to the acre to raise sets.

Yellow, lb., 25c; by freight charges collect; lb., 20c.

PARSLEY

Parsley is very generally used for garnishing, and seasoning soups and stews. It can be used fresh from the garden, or dried and rubbed into a fine powder when it can be bottled for winter use. It becomes finer and more beautifully curled if cut frequently. As the seed germinates slowly, it should be soaked a few hours in warm water, and sown in drills a foot apart and half an inch deep, as early in spring as possible. Thin to three or four inches apart. Thrives best in deep, rich soil.

MOSS CURLED or FERN LEAVED—A beautiful fern or moss-like variety. The best for garnishing.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.25.

FINE TRIPLE CURLED—Fine for seasoning; also good for table decoration.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.25.

PARSNIP

The Parsnip is nutritious and wholesome, with a sugary sweetness peculiar to itself, and is superior both for the table and for stock feeding. It yields a large crop, and is said to be more valuable for dairy cows than either the carrot or turnip. As the seed germinates very slowly, sow as early in spring as possible, in drills fifteen inches apart, on deeply-cultivated, rich, loamy soil. Keep clear of weeds and thin to three or four inches apart. The roots are improved by freezing.

LONG DUTCH SUGAR—A fine-flavored standard variety. Long, large roots. Sweet and sugary.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.00.

HOLLOW CROWN—Fine, smooth roots. The best for general use. Productive and excellent.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.00.

PEAS

(When Peas by the pound are wanted by mail or express prepaid, add sufficient money to pay carrying charges. 10, 25, and 100-lb. lots by freight, charges collect.)

While almost any soil will produce good Peas, yet, like most other vegetables, they respond to liberal treatment and careful cultivation. Well-rotted stable manure and bone dust make excellent fertilizers for this crop. Deep plowing is of the greatest importance. For early peas, plant as soon as the ground can be worked, in light, well-drained soil and a sunny exposure. For the main crop a heavier soil may be selected. They are usually planted in double rows, about four feet apart and three inches deep. Bush those that require it, when six inches high. The field crop may be sowed broadcast.

Our garden peas have been grown from selected seeds, are true to name, have been carefully hand picked, and are fit for gardeners' use at once. We ask our customers not to confound them with the common peas usually found in the market at a low price, which are only fit for field use or for feeding stock. Our list includes the best kinds, and is sufficiently varied to meet the wants of all.

Extra Early Peas

FIRST AND BEST—Unsurpassed for early and even ripening. One of the very best for market gardeners, as the whole crop ripens within a few days, so that the ground may be cleared and another crop planted. About forty-five days is the average from planting until the whole crop is ready for market.

Pkt., 10c; lb., 25c; 10 to 25 lbs., 18c lb.

ALASKA or EARLIEST OF ALL—Earliest and best of all the blue, smooth varieties, coming into pod as soon as the Extra Early. Height, two to two and a half feet.

Pkt., 10c; lb., 25c; 10 to 25 lbs., 20c per lb.

AMERICAN WONDER—One of the earliest sweet wrinkled kinds in cultivation; constantly coming into more general use. It is a wonderfully productive dwarf variety, the pods being large and well filled. The pea is rather above the average in size, and very sweet and delicious. Height, nine inches.

Pkt., 10c; lb., 35c; larger quantities, write for price.

NOTT'S EXCELSIOR—One of the best Extra Early sweet wrinkled kinds. Resembles the American Wonder, but the plants are larger and more vigorous; quite distinct from that of the Premium Gem.

Pkt., 10c; lb., 35c; larger quantities, write for price.

McLEAN'S LITTLE GEM—A sweet wrinkled pea, coming in a little later than the American Wonder; grows taller, and continues in bearing longer. The quality of the pea is very superior. Height fifteen inches.

Pkt., 10c; lb., 35c.

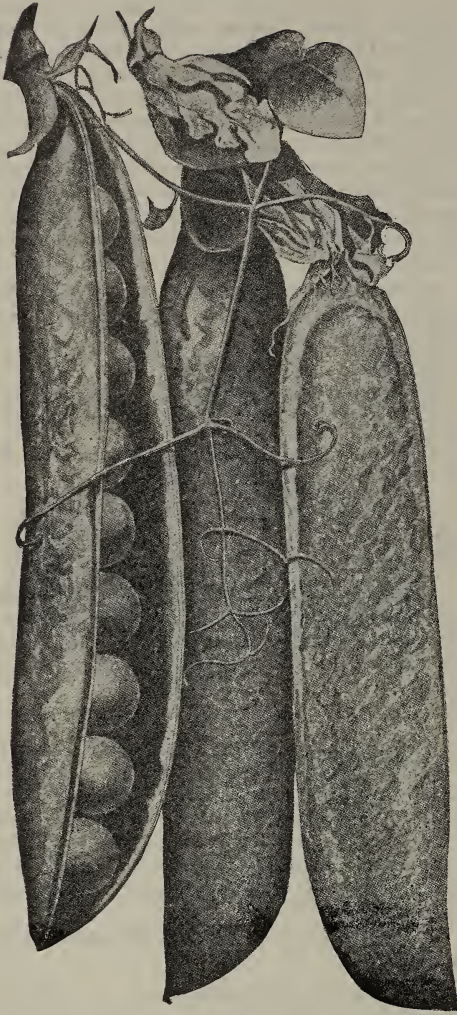
PREMIUM GEM—One of the earliest dwarf, green, wrinkled varieties. Prolific and of fine quality. Similar to the Little Gem.

Pkt., 10c; lb., 35c.

DWARF TELEPHONE—Very similar to the large or tall Telephone, growing about 1½ feet tall and quite early. A favorite sort with our market gardeners.

Pkt., 10c; lb., 30c.

PEAS—Continued



"New Dwarf Gradus"

NEW DWARF "GRADUS"—The tall, extra early, Gradus pea with its large telephone-like pods and its exquisite flavored peas is one of the most popular of all peas. In New Dwarf Gradus we have a dwarf type of the Gradus with the same large pods and same superlative quality peas. This new Dwarf Pea is the largest podded of all the early dwarf peas and requires no supports of any kind. New Dwarf Gradus almost makes for itself a new class of garden peas—Giant Podded Early Dwarfs.

This new pea ripens in season a few days later than the first earlies, the pods are as large as Telephone and well filled with eight to ten large and delicious peas.

Pkt., 10c; lb., 30c. Write for special price in larger lots.

MAIN CROP VARIETIES

Teddy Roosevelt

TEDDY ROOSEVELT—A giant podded main crop pea. The largest "podder," surest "cropper" and heaviest "yielder" of all the main crop sorts. The Telephone and

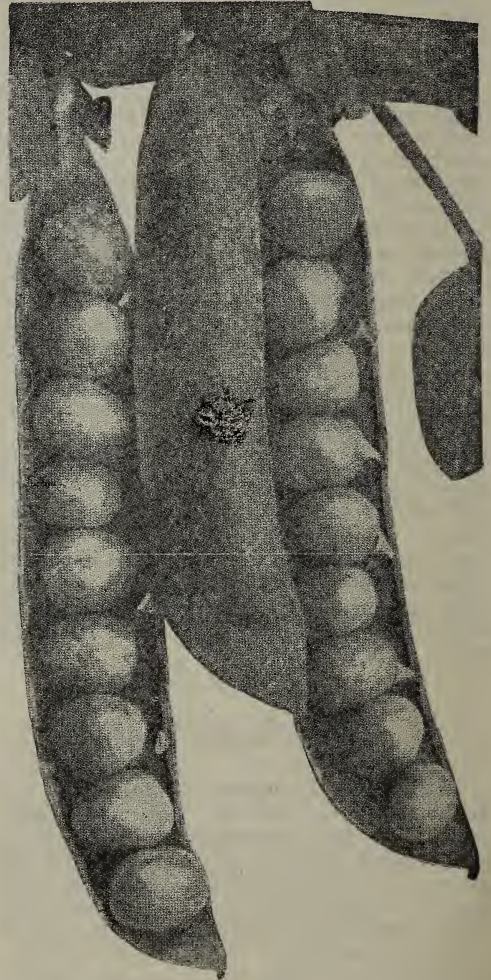
Stratagem were the first large-podded peas to be introduced. Naturally they created a sensation because they were advertised widely, and are at present the most largely used in America of any of the large-podded varieties. They have, however, one serious defect; the pods contain very few peas.

This fault has been remedied in some of the later introductions, and notably so in the Teddy Roosevelt. This grand pea resembles the Telephone in color of pod and foliage, and in habit of growth; but the pods are larger and contain more peas. A bushel of pods will shell out nearly twice as many peas as the Telephone. The vines are enormously productive, being completely covered with immense long pods, well filled with from 8 to 9 large peas of the richest flavor. This variety grows from 4 to 5 feet high and, as an abundant cropper, is superior to all other sorts.

Nothing in the long line of peas excels the Teddy Roosevelt in richness, sweetness and flavor, and it ought not take a gardener long to figure out that a bushel of pods that will give as many peas as two bushels of other varieties is the kind to grow. The demand is so great every year for Teddy Roosevelt Peas that our stock is usually exhausted early in the season.

Pkt., 10c; lb., 30c; 100 lbs., \$25.00.

Special price in larger lots.



PEAS—Continued

GRADUS—This valuable creation fills a place not heretofore occupied by any kind of peas, especially for the home garden. It is extra early, producing immense pods that are filled with large, sweet, wrinkled, dark green peas of finest quality. Every family and gardener should try it.

Pkt., 10c; lb., 30c.



TELEPHONE—This variety has now come into general use, and is acknowledged to be of great merit. Peas large wrinkled,

very sweet; pods enormous and well filled. Height four feet; medium late.

Pkt., 10c; lb., 30c.

YORKSHIRE HERO—One of the largest sweet wrinkled kinds; vines strong and spreading, pods of good size and well filled; much in use and has enjoyed a long popularity; medium late; bears a long time; height two and a half feet.

Pkt., 10c; lb., 30c.

STRATAGEM—A sweet, wrinkled variety, introduced from England. Vines not large, but of vigorous growth, producing a heavy crop; beautiful, long pods, well filled with large peas of good quality; two feet.

Pkt., 10c; lb., 30c.

CHAMPION OF ENGLAND—The leading late sweet, wrinkled pea. Vines large, luxuriant, and very prolific. For either family use or the market garden, it has no superior, five feet.

Pkt., 10c; lb., 30c.

Edible Podded Peas

TALL SUGAR, BROWN SEEDED—A variety of pea of which the pod has not the tough lining common to other varieties, therefore pods can be cooked and eaten same as string beans. This variety grows about four feet high; pods large, tender, sweet and succulent.

Pkt., 10c; lb., 40c.

PEPPER

Sow the seeds early in hotbeds, or late, when the weather becomes warm, in open beds; when two or three inches high, transplant to a warm, mellow soil, in rows eighteen inches apart and a foot apart in the row. Guano and hen manure are excellent fertilizers, and will greatly increase the yield.

LARGE BELL or BULL NOSE—A large, mild, thick-fleshed variety. One of the best for stuffed pickles.

Pkt., 10c; oz., 60c; 2 oz., \$1.00; ¼ lb., \$2.50; lb., \$6.00.

SWEET SPANISH or MOUNTAIN—Similar to the Large Bell, but usually larger. Excellent for pickling and stuffing.

Pkt., 10c; oz., 60c; 2 oz., \$1.00; ¼ lb., \$2.50; lb., \$6.00.

SQUASH or TOMATO SHAPED—Pods short, thick, and ribbed at the point. They are very productive, fleshy and mild, and excellent for pickling.

Pkt., 10c; oz., 50c; 2 oz., 90c; ¼ lb., \$1.75; lb., \$6.00.

CHILI—Produce small, pointed pods that are a brilliant scarlet, and very pungent when ripe. Used largely in the manufacture of pepper sauce.

Pkt., 10c; oz., 50c; 2 oz., 90c; ¼ lb., \$1.75; lb., \$6.00.

RED CHERRY—The pods are small round, glossy scarlet, and very handsome when ripe. Excellent for mixing with pickles.

Pkt., 10c; oz., 50c; 2 oz., 90c; ¼ lb., \$1.75; lb., \$6.00.

LONG LARGE RED—This kind is planted to produce the article known as "Dried Chili," constantly found in the California and Mexican markets. It is large at the stem, tapering to a point at the tip, measuring three to five inches in length. Seeds and pods very pungent. Esteemed for seasoning various dishes.

Pkt., 10c; oz., 50c; 2 oz., 90c; ¼ lb., \$1.75; lb., \$6.00.

LONG RED CAYENNE—Brilliant, coral-red pods, three or four inches long, and a prolific bearer. Very pungent, and used very largely with pickles when green.

Pkt., 10c; oz., 50c; 2 oz., 90c; ¼ lb., \$1.75; lb., \$6.00.

PUMPKIN

Pumpkins, though sometimes used for cooking, do not compare favorably, as a table vegetable, with the finer varieties of squash, but are better adapted and more profitable for stock feeding. They do not require as rich soil as melons, and the hills should be farther apart; otherwise the treatment should be the same.

LARGE SWEET CHEESE—Large, flat, dishing at the ends; flesh very thick, sweet, and nutritious. More nearly related to the squash than the Large Yellow. Fine for the table.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.50.

QUAKER PIE—A small, delicious pumpkin, much sweeter and fine for pies.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.25.

MAMMOTH—The largest known, often weighing over one hundred pounds. Oval round, deep orange, slightly mottled; flesh not thick, but, on account of its enormous size, yields a very large amount of feed per acre. Also used for the table.

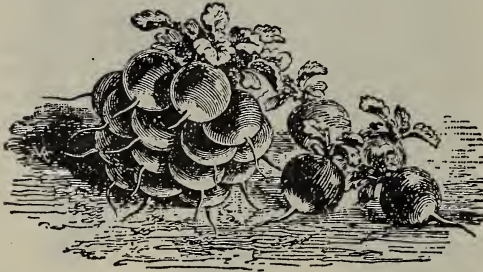
Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 30c; lb., \$1.00.

LARGE YELLOW or CONNECTICUT FIELD—A large, round variety, sometimes depressed at the ends; rind of a deep, glossy yellow. Vines vigorous and very productive. If protected, will keep well till midwinter.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

RADISH

The radish is cultivated for its root, which should be eaten when young and tender, as in maturing it becomes strong, tough, and pithy. It should be sown for early use as soon as the ground can be well prepared, and for succession, at intervals of two or three weeks throughout the season, in rich, loose, warm soil, as the quality depends largely on its rapid growth. Sow in rows a foot apart, and thin to two inches in the row by using the largest ones as soon as of sufficient size for the table. Keep free from weeds and well watered. In the heat of summer select a cool, shady place.



EARLY LONG SCARLET—The leading variety either for the family or market garden. From six to eight inches long, standing nearly half above ground; bright scarlet, smooth, crisp, tender and mild.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

WOOD'S EARLY FRAME—Shorter and thicker than the preceding; a good variety for forcing, and one of the best for first crop in the open garden.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

LONG, BRIGHTEST SCARLET WHITE TIPPED—Sometimes new in the way of a long radish, and proving itself very useful and worthy of general cultivation; color strikingly bright scarlet; tip white; general appearance very attractive. It is extra early and the flesh is very tender. Valuable for forcing or open ground.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

SCARLET CHARTER, WHITE TIPPED—Roots long, tapering rather abruptly, and attaining a very large size. Of rapid growth, it is soon ready for the table, remaining crisp and tender until full grown. Color scarlet above, shading into white at the tip. Flesh white and mild in flavor.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

EARLY OLIVE-SHAPED or HALF LONG SCARLET—An excellent variety, of rapid growth, skin thin, flesh rose tinted and very tender; two or three inches long, with slender tap root.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

FRENCH BREAKFAST or HALF LONG SCARLET, WHITE TIPPED—Medium size, of quick growth, crisp, and tender; terminates more abruptly than the Half Long Scarlet; lower end and taproot white.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

HALF LONG DEEP SCARLET—A handsome variety, somewhat resembling the Olive shaped, but of a deeper scarlet, and having a smaller top. Flesh tender and of the best quality; good for forcing.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

EARLY SCARLET, TURNIP ROOTED—The leading turnip-shaped kind. Deep scarlet, small tap root; very crisp and tender. Of rapid growth, and, if sown with others, the first ready for the table. One of the best for forcing.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

EARLY SCARLET TURNIP, WHITE TIPPED—Similar in shape and size to the Scarlet Turnip Rooted, only that the under side of the bulb and taproot are white.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

NON-PLUS ULTRA or EARLY ROUND DEEP SCARLET FORCING—A handsome early kind. Deep scarlet, smooth, and crisp; very showy when served with the White Turnip Rooted.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

EARLY WHITE TURNIP ROOTED—The best white turnip-shaped variety; pure white, small top, mild and crisp. Ready for the table in six weeks after planting.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

LONG WHITE VIENNA or LADY FINGER—The best long, white radish grown; pure white, long, tender, and sweet; a favorite also for its beauty of form and rapid growth.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

WHITE STRASBURG—One of the best of the large summer sorts; it covers a long season, as it is good when quite small. The roots are long, very white, crisp, and tender.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

RADISH—Continued

ROUND BLACK SPANISH—Roots round or top shaped, skin black; flesh very white, fine grained, and highly flavored. An excellent sort for winter, as the roots keep a long time.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

LONG BLACK SPANISH, FALL or WINTER—Very hardy, and good for winter use. If stored in sand, will keep good all winter. The roots, which present a rusty black appearance, are large, firm, and not liable to become pithy.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

GOLDEN GLOBE or GOLDEN SUMMER—Its chief peculiarity is its russet skin; form round; flesh solid, white and pungent.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ oz., 45c; lb., \$1.50.

SCARLET CHINA, WINTER—A half-long variety, largest near the taproot; skin bright scarlet; flesh firm and more pungent than most others. It is easily kept all winter.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

MAMMOTH CALIFORNIA or WHITE CHINA, WINTER—Extensively grown by the Chinese, who introduced it into California. It has now become popular among all classes. Very large and cylindrical, terminating abruptly, with little taproot; mild and tender, and keeps well all winter. The skin and flesh are of a transparent white.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

RHUBARB OR PIE PLANT

Rhubarb is extensively raised near all large cities, and should be more generally grown, and it is ready for use before most kinds of fruit are in the market. Its culture is very simple, and it yields every spring an abundance of leaf stalks, which are delicious when made into pies, tarts, and sauce. Sow in drills eighteen inches apart, and thin the plants to six inches. In the fall, trench or subsoil a piece of ground, manure very heavily, and transplant the young roots into it, three feet apart each way. Give a heavy dressing of manure annually and cut off the seed stalks as they appear, to prevent the plants from exhausting themselves by running to seed. The seed cannot be relied on to produce the same variety.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.25.

SALSIFY OR VEGETABLE OYSTER

MAMMOTH SANDWICH ISLAND—The leading variety; produces a large crop of straight, smooth roots.

Pkt., 5c; oz., 25c; 2 oz., 45c; ¼ lb., 75c; lb., \$2.00.

LARGE WHITE—An early kind; tender and excellent.

Pkt., 5c; oz., 25c; 2 oz., 45c; ¼ lb., 75c; lb., \$2.00.

SPINACH

A wholesome, palatable, hardy vegetable, much used for greens. It is easily grown, and may be had during the entire season. It will grow on almost any soil, but is more tender and succulent when grown in soil heavily manured and well pulverized. For a summer crop, sow early, in drills a foot apart, and thin gradually to six inches apart. For early spring use, sow in the

fall, and protect in cold climates with a covering of straw. It should be cut back, using only the young leaves; the old ones are tough and stringy.

SAVOY LEAVED—A very early variety, of upright growth and pointed leaves, which are crinkled, like Savoy Cabbage. Grows quickly and seeds early. Plant in autumn for early spring use.

Pkt., 5c; oz., 10c; 2 oz., 15c; lb., 65c.

ROUND SUMMER—An excellent variety for early spring sowing. The leaves are round, thick, and fleshy. Good for early market gardening.

Pkt., 5c; oz., 10c; 2 oz., 15c; lb., 65c.

IMPROVED THICK LEAVED—The leaves of this variety are unusually thick, fleshy and tender. It is also hardy, and may be sown as soon as the ground can be thoroughly prepared.

Pkt., 5c; oz., 10c; 2 oz., 15c; lb., 65c.

VICTORIA—This variety produces the largest leaves of any, yielding an enormous crop. Excellent for the family or market garden.

Pkt., 5c; oz., 10c; 2 oz., 15c; lb., 65c.

LONG STANDING—An improved variety, having thick leaves that remain tender longer than any other, and on this account one of the best for market gardeners.

Pkt., 5c; oz., 10c; 2 oz., 15c; lb., 65c.

LARGE PRICKLY SEEDED—The hardest kind, and may be sown in the fall, only requiring protection during the most severe frosts. The seed is prickly, the leaves rather long and pointed, but thick and succulent.

Pkt., 5c; oz., 10c; 2 oz., 15c; lb., 65c.

SQUASH

Squashes are extensively grown, and embrace many distinct varieties. Their easy cultivation, enormous yield, and nutritious qualities render the larger kinds one of the best and most profitable crops for stock feeding. The summer varieties are ready for the table early in the season, while the winter sorts can be kept until the early kinds are again in the market. All kinds thrive best in loose, rich soil, under the same treatment as that recommended for melons. The seed should not be planted until danger of frost is past and the ground is warm. Plant the summer varieties four feet apart each way, and the winter kinds, eight feet.

Summer Varieties

EARLY WHITE BUSH SCALLOP—The leading early Bush Scallop variety; round, flat, with scalloped edges. The skin is white; the flesh is of excellent quality, and ready for use as soon as it is large enough.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 90c.

MAMMOTH WHITE BUSH SCALLOP—

An improvement on the preceding in point of size, being twelve to fifteen inches across; very productive, and uniform in growth.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 90c.

SUMMER CROOKNECK—An early, prolific kind, having a solid, curved neck; the skin is yellow, thin, hard, and very warty; flesh tender and of good quality.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 90c.

MAMMOTH SUMMER CROOKNECK—

Twice the size of the ordinary Summer Crookneck, also earlier and more warty; a decided advance on the old kind.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 90c.

WHITE SUMMER CROOKNECK—A comparatively new but decidedly excellent summer variety. Similar to the Crooknecks, but ivory white in color; of good quality and flavor, and sure to become a favorite.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 90c.

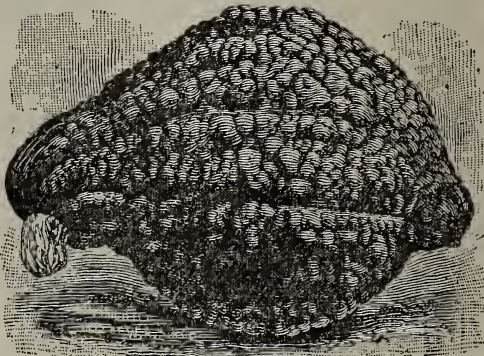
Winter Varieties

BOSTON or VEGETABLE MARROW—A leading variety, ripening early in the fall, but keeping well through the winter; oval round, mottled dark and light yellow; flesh salmon colored, remarkable for its rich, sweet flavor.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 30c; lb., \$1.00.

MAMMOTH CHILI—The largest variety grown, having attained a weight of over two hundred pounds. Round, flattened at the ends; rind deep orange; flesh dark yellow, thick, and very nutritious. Sometimes used for the table, but more desirable for stock feeding. It is a good keeper.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 30c; lb., \$1.00.



FIELD MARROW—A mixture of marrow varieties to be planted for feeding dairy cows and other stock. Yields a large crop.

Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; 25 to 100 lbs., write for prices.

HUBBARD—One of the best and most popular kinds; rind bluish green, and very hard; flesh remarkably dry, either baked or boiled, and not surpassed in richness and sweetness by any. It is also easily kept all winter.

Pkt., 5c; oz., 10c; 2 oz., 20c; ¼ lb., 35c; lb., \$1.25.

GOLDEN HUBBARD—Flesh deep orange, skin orange to red in color; of excellent grain and flavor. Vine vigorous and very productive, maturing its crop early; fruits six to eight pounds each, which are good keepers. Considered the best winter variety, and likely to become a favorite.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 30c; lb., \$1.25.

SUGAR CANE OR SORGHUM

EARLY AMBER—Early and of rapid growth, best for sugar and syrup, making a rich, amber-colored syrup, and granulating into sugar beautifully.

Lb., 20c.

EARLY ORANGE—Of more vigorous growth and but little later than the Amber. It is good for sugar and syrup, and, on account of its unusually large yield, is the most profitable kind for stock feeding.

Lb., 20c.

TOBACCO

CONNECTICUT SEED LEAF—Hardy and the best adapted to cool localities and for general use.

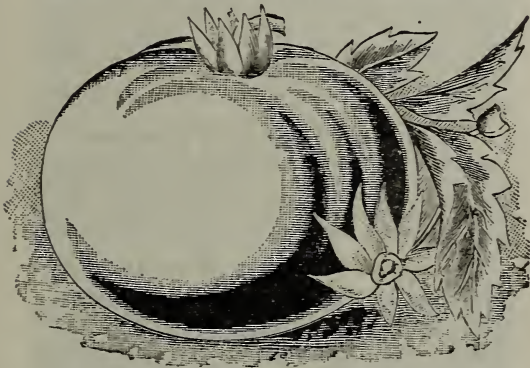
Pkt., 5c; oz., 25c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

HAVANA—Of fine texture and delicate flavor. Celebrated for its value in the manufacture of fine cigars.

Pkt., 5c; oz., 40c; 2 oz., 70c; ¼ lb., \$1.25; lb., \$4.00.

TOMATO

Marked improvement has recently been made in the tomato. Its value as a table vegetable can hardly be overestimated. Its healthfulness during the heat of summer, and especially for bilious temperaments, is well known, and a diet composed largely of tomatoes, both raw and cooked, is a powerful aid in warding off the effects of malaria. The first step toward success, after obtaining good seed, is to produce strong, healthy plants. For early crop sow as soon as desired in hotbeds. When two inches high, transplant in the beds to four or five inches apart each way, to give the plants room, and make them bushy, always keeping them well aired. If they crowd each other before time to transplant, root prunings by drawing a sharp knife deeply between the plants. When danger of frost is past, transplant to rich, loose soil, keeping well watered and cultivated. For later crop, sow in cold frames or open ground, and transplant when four to six inches high. If possible, support the vines. Thus treated, they will continue in bearing much longer, and the fruit will be greatly improved.



COMET (Forcing)—The very best forcing variety and a great favorite for greenhouse growers. They are a beautiful scarlet, good size, very smooth and uniform in size. Sold in packets at 20c each.

SPARK'S EARLIANA—The earliest tall variety, forming ripe fruit much earlier than any other variety. The fruit is large, smooth, of a bright scarlet color, and of fine quality. Very valuable for early market use.

Pkt., 5c; oz., 25c; 1/4 lb., 75c; lb., \$2.75.

ATLANTIC PRIZE, EXTRA EARLY—A distinctly early variety, of good size and smooth surface. Many of the objections to the usual early kinds, such as under size, deep corrugations, and rough skin, are overcome in the Atlantic Prize.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; lb., \$2.75.

EARLY MICHIGAN—An extremely smooth, perfectly-shaped tomato; solid, and without core. Vines large and vigorous. A heavy cropper, and one of the earliest.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; lb., \$2.75.

ACME—Also early and popular. The fruit is smooth, handsome, solid and of good quality. A good bearer. Color dark

purplish red. A superior, early market variety, and ripens evenly.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; lb., \$2.75.

PERFECTION—One of the best medium early kinds; round, uniformly smooth; vines very productive; fruit deep scarlet, firm, and of excellent quality. Vines continue long in bearing.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; lb., \$2.75.

FAVORITE—One of the best for general crop; vines vigorous, continuing in bearing all the season; fruit very large, uniformly smooth, firm, without hard core; ripens medium early; holds its side well till frost. Is very fleshy, with few seeds.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; lb., \$2.75.

STONE—A large tomato of good quality; round or apple shaped, and very uniform, deep red in color, and exceedingly heavy.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; lb., \$2.75.

DWARF ARISTOCRAT—Plant dwarf and compact; full medium size; rich, glossy red, smooth and solid. Fine for private gardens.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; lb., \$2.75.

BEAUTY—A distinct variety, uniformly large; color deep crimson, inclining to purple. The vines, which are vigorous, continue to bear large, handsome fruit till the close of the season. It has but few seeds, and its handsomely-grained flesh is of superior quality. It has few equals, either for the family or market garden.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; lb., \$2.75.

DWARF CHAMPION or TREE TOMATO—Vines erect and vigorous; fruit of medium size, round, smooth, of excellent quality, very fleshy; approaching purple in color.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; lb., \$2.75.

OPTIMUS—A second early kind; uniform in size, color bright red; smooth and handsome. Our stock is the very best.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; lb., \$2.75.

GOLDEN QUEEN—Very handsome when prepared for the table; flesh rich and of superior quality.

Pkt., 5c; oz., 35c; 2 oz., 50c; 1/4 lb., \$1.00; lb., \$3.50.

RED PEAR-SHAPED, YELLOW PLUM, RED CHERRY—Small, handsome tomatoes, resembling the different fruits named; used for pickles, preserves, and ornamentation. Seed sold separate or mixed.

Pkt., 5c; oz., 35c; 2 oz., 50c; 1/4 lb., \$1.00; lb., \$4.00.

HUSK TOMATO or GROUND CHERRY—A small, yellow sort, much used for preserving; also good eaten fresh from the vines.

Pkt., 5c; oz., 35c; 2 oz., 50c; 1/4 lb., \$1.00; lb., \$4.00.

TURNIP

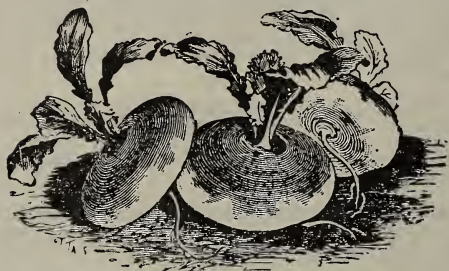
The turnip is a nutritious, wholesome vegetable of fine texture and delicate flavor and easily affected by soil and cultivation. White-fleshed varieties are apt to deteriorate in quality if overgrown or left in the

ground too long after maturing. The best results are obtained in rich, mellow soil, adding, if possible, a dressing of wood ashes. Rotted mature should be avoided, having a tendency to make turnips rough,

TURNIPS—Continued

wormy, and strong. They are hardy, and may, in mild climates, be sown as soon after rain as the ground can be prepared, either broadcast or in drills twelve to eighteen inches apart and half an inch deep, thinning to six inches apart in the drill. The ruta бага, which is extensively grown for feeding stock during winter, is sown later, in rows two or three feet apart, and thinned to ten inches in the row. Both ruta bagas and turnips may be kept through the winter by storing in a cool, dry place, and covering with straw, or by burying in clean, dry sand. Our list includes the choicest varieties.

White-Fleshed Kinds



EXTRA EARLY WHITE MILAN—This variety is ready for the table sooner after planting than any other yet introduced. Top small, erect, strap leaves; bulb a deep purple above, white underneath; flesh white, firm, and delicate. Remains tender and in condition for the table a long time.

Pkt., 5c; oz., 25c; 2 oz., 45c; ¼ lb., 75c; lb., \$2.00.

EXTRA EARLY PURPLE TOP MILAN—Same as above, but pure white.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 45c; lb., \$1.00.

EARLY WHITE FLAT DUTCH, STRAP LEAVED—A leading white-fleshed variety, and one of the best, either for the family, market garden, or field crop. It is of medium size, and produces a large crop. The flesh is firm and tender, and of a superior, rich, buttery flavor. A good keeper.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

EARLY PURPLE TOP STRAP-LEAVED—One of the best and most universally grown. Small, erect top, round flat; purplish red above, white underneath; flesh firm, but very tender and sweet. Of quick growth, it is soon ready for the table, and keeps well.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

PURPLE TOP WHITE GLOBE—A large globe-shaped variety; purple above ground; it is handsome and of excellent quality, and

recommended both for the family garden and field crop.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 90c.

WHITE EGG—An oval or egg-shaped variety, growing much above ground. It is pure white, smooth, and handsome; flesh tender and excellent. It is of rapid growth, and recommended for early fall planting.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

POMERANEAN WHITE GLOBE—A pure white, smooth-skinned turnip, growing in good soil to a very large size; almost perfect globe shape; good for stock or table.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

SWEET GERMAN—A round turnip, white, solid, and sweet, but peculiar in the fact that it partakes of the nature and suggests the flavor of the ruta бага. Should be sown three or four weeks earlier than the flat varieties. A good keeper and a favorite in the Eastern states.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

COW HORN or LONG WHITE—A distinct variety, having a long, slightly-curved root, somewhat resembling a carrot. It is white, with a green tint near the top, growing partly above ground; flesh tender, sweet, and of fine quality. Can be sown early for fall and winter use.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.50.

Yellow-Fleshed Varieties

LARGE AMBER GLOBE—Large, rather globe-shaped; yellow, tinted with green on top; flesh sweet and of good quality. It is hardy, produces a large crop, and keeps well. Good both for the table and field crop.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

ORANGE JELLY or ROBERTSON'S GOLDEN BALL—One of the best yellow-fleshed kinds, not large, rather globe-shaped; flesh fine grained, firm, sweet, and of superior flavor. Keeps well all winter.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

PURPLE-TOP YELLOW ABERDEEN—Round, medium size, light yellow, stained with purple on top. Produces a large crop, is hardy and keeps well; flesh very firm, but tender and sweet.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

PETROWSKI—A most distinct variety of early maturity. The flat roots average 2½ to 3 inches in diameter, and the skin is a deep orange yellow, very smooth. The firm, solid flesh is fine grained, crisp, light orange yellow in color, and very sweet and tender.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 45c; lb., \$1.50.

RUTA BAGAS or SWEDES

SKIRVING'S PURPLE TOP YELLOW—A variety closely resembling the Champion, grows to a very large size, and is of excellent quality; flesh very firm. Easily kept all winter.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

SWEET RUSSIAN or WHITE RUTA BAGA—The only white-fleshed Ruta Baga in general cultivation; is hardy, easily grown, large, and yields as heavy a crop as the best yellow kinds; flesh fine grained per acre, and are richer and more nutritious, and for these reasons preferred for flesh than turnips, but yield more weight.

Ruta Bagas are larger and coarser in ground, making them easier to harvest than stock feeding, for which they are very profitable. They are also used on the table. They yield best in a rich, strong soil.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

PURPLE-TOP SWEDE or YELLOW RUTA BAGA—A large variety, growing much above ground; is hardy, and should be sown as early as the ground can be prepared; ashy purple on top, yellow underneath. A large cropper and a good keeper.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

MONARCH or TANKARD—This is a tankard-shaped sort; color purplish crimson above ground, yellow below. The flesh is of a rich yellow, fine grained, and of the best quality. The roots grow much above and solid, but tender and well flavored; good for stock and desirable for the table. Most globe-shaped varieties.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.

AROMATIC, MEDICINAL, SWEET AND POT HERBS

ANISE (*Pimpinella Anisum*)—For garnishing and seasoning. The seeds are also used medicinally. They have a powerful aroma, are tonic, and frequently beneficial in cases of colic and dyspepsia. Annual.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 30c.

BALM (*Melissa officinalis*)—A fragrant lemon-scented herb, used for making balm tea or balm wine. It is easily grown from the seed, or multiplied by dividing the roots. The tea is a febrifuge, possessing considerable virtue, and the wine excellent to allay thirst. Hardy perennial.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c.

BASIL, SWEET (*Ocimum Basilicum*)—The leaves and top shoots are used for seasoning soups, stews and sauces. Hardy annual.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c.

CATNIP (*Nepeta Cataria*)—A mild nerveine. As a tea it is excellent for children. For winter use, remove the plant by the root, and dry as other herbs. Hardy perennial.

Pkt., 5c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00.

DILL (*Anethum Graveolens*)—A hardy annual, the seeds of which are aromatic, warm, and pungent, and are used medicinally in cases of colic and to correct flatulence. They are also used to flavor soups and stews, and in pickles. The leaves possess similar qualities, and can be used in the same manner as the seeds.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c.

FENNEL, SWEET (*Foeniculum vulgare*)—The leaves are used for ornament, also much esteemed for flavoring fish sauces. The seeds have an agreeable aroma, and are used in confectionery, for flavoring, and medicinally. Hardy annual.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 30c.

HYSSOP (*Hyssopus Officinalis*)—The leaves and flowers are the parts used, and have a warm, aromatic, pungent taste. Medicinally it is a tonic and expectorant, acting on the bronchial tubes, and is beneficial in cases of asthma and catarrh. A hardy perennial, maturing best in a dry, sandy soil. The hyssop of Scripture is supposed to be a species of the caper.

Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c.

LAVENDAR (*Lavendula vera*)—So called from its extensive use by the Romans in

the bath. It is cultivated for the powerful and delicious fragrance of its flowers, which should be gathered when in full bloom, dried quickly, and carefully protected from the air and moisture. Hardy perennial.

Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c.

MARJORAM, SWEET (*Origanum Marjorana*)—A perennial in warm climates, but unable to withstand severe winters. The young shoots and leaves are peculiarly aromatic, and are used for flavoring, either fresh from the garden or dried.

Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c.

RUE (*Ruta graveolens*)—A stimulant in medicine, but, on account of its powerful acrid effect, should be used with great care. The plant should not be allowed to run to seed, or the young shoots should be cut before the seed matures, or they lose their strength. Hardy perennial.

Pkt., 5c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00.

SAGE (*Salvia officinalis*)—Sage is used, almost universally, as a condiment for relishes and flavoring. Used medicinally, it is diuretic in effect, producing gentle perspiration. It is a hardy perennial, that should have rich soil and thorough cultivation. Cut the young shoots just before blooming, dry quickly in the shade, and store carefully, or pulverize and bottle.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c.

SAVOY, SUMMER (*Satueria Hortensia*)—Cultivated for the young shoots, which are dried and used for flavoring soups, dressings, and meats. It is a hardy annual, and may be sown as soon as the ground can be prepared.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c. . .

SORREL (*Rumex acetosa*)—A hardy perennial plant, much prized by the French. It has a sour taste, and is used as a salad, and by some in soups and sauces. Can be propagated by dividing the roots. To secure a good growth of leaves, cut out the flower stalks as they appear.

Pkt., 5c; oz., 25c; 2 oz., 35c; ¼ lb., 60c.

THYME (*Thymus vulgaris*)—A hardy perennial, a warm, pungent, and very aromatic plant, much used for flavoring soups, dressings, etc. It is also a nerveine, and tea made from leaves is used with good effect in cases of nervous headache. It can be used either fresh or dried. Plant as soon as the ground can be prepared.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 65c.

CLOVER, GRASS AND GRAINS

Prices Subject to Market Changes.

Add transportation charges to all clover, grass and field seeds.

As the country becomes settled, and lands that have been used for grazing only are inclosed and devoted to agriculture or the growing of fruits, the question of economically raising and fattening stock for market becomes a more important one. To solve the problem, the farmers are fast turning their attention to the raising of grass and clover. Fully appreciating the growing importance of this branch of husbandry, we are constantly adding to our facilities to meet every requirement of our large-increasing trade.

ALFALFA (*Medicago sativa*)—Alfalfa, also known as Lucerne and Chill clover, is one of the most valuable foliage plants, yielding a prodigious amount of feed, which is relished by all kinds of stock, and is very nutritious. It should be cut just before coming into bloom. The hay is especially valuable for dairy cows. As soon as cut, it immediately commences to grow, and during the hottest and driest weather,

when other grasses are parched and withered, it remains fresh and green, and grows as rapidly as ever. Prepare the land by deep plowing and thorough harrowing. Sow from twenty to thirty pounds of seed to the acre, and harrow or brush it in well. Seeding thick will produce fine stalks—a desirable feature, either in hay or pasture. The seed should be sown in spring, after danger from freezing the young plants is over, or in the fall, early enough to give it a good stand before frost.

Per lb., 50c; 100 lbs. or over, write for price.

TURKESTAN ALFALFA—Will produce a fine growth in the driest and hottest sections without irrigation and will withstand frost and cold. We offer the genuine imported article.

Per lb., 60c; 100 lbs. or over, write for prices.

RED CLOVER (*Trifolium pratense*)—The standard clover for all purposes, either pasture, hay, or for improving and enriching the soil. It is hardy, and may be sown at any time when the ground is in condi-

CLOVER, GRASS AND GRAINS—Continued

tion to receive the seed. It succeeds well on any good soil, and thin, light lands are made fertile and rich by allowing them to remain seeded to it for a number of years. It yields the heaviest crop of any clover except alfalfa, and makes superior hay, especially if mixed with timothy, either for dairy cows or general use. Sow from twelve to fifteen pounds per acre, being careful to get it evenly distributed over the ground.

Per lb., 65c; 10 to 25 lbs., at buyer's expense for freight, 60c per lb.; 100 lbs. and over, write for price.

MAMMOTH RED CLOVER (*Trifolium pratense*)—Similar to Red Clover, but coarser and taller, and considered of more value for reclaiming and enriching waste land, as it sustains itself, and succeeds sometimes when Red Clover fails. Sow from twelve to fifteen pounds per acre in time to get the benefit of ample moisture.

Per lb., 70c; 10 to 25 lbs., at buyer's expense for freight, 65c per lb.; 100 lbs. and over, write for price.

WHITE DUTCH CLOVER (*Trifolium repens*)—A small variety, having a white blossom. It is of a vining nature, spreading rapidly, and will soon cover bare spots if the stand be uneven. It does not attain sufficient height to be profitable for hay, but is superior for pasture either for cattle or sheep, and unsurpassed for the production of honey. It also makes a beautiful lawn, mixed with blue grass. When sown alone, use eight to ten pounds per acre. Harrow the soil until it is very fine before sowing.

Per lb., 80c; 10 to 25 lbs., at buyer's expense for freight, 70c per lb.; 100 lbs. and over, write for prices.

CRIMSON OR SCARLET CLOVER (*Trifolium incarnatum*).—Highly recommended for pasture and fertilizing purposes. It is a thrifty annual, growing from twenty to thirty inches high. It germinates quickly, grows rapidly and stools abundantly. Cut for hay when in full bloom. Planted in the Fall can be plowed under after blooming in the Spring and be followed with barley or potatoes.

Per lb., 40c; 100 lbs., \$35.00.

ALSIKE OR SWEDISH CLOVER (*Trifolium hybridum*)—A comparatively new and perfectly hardy variety, which is rapidly growing in popular favor. It yields large crops of excellent hay, and, under favorable conditions, may be cut several times during the season. It is also valuable for bees. It is well calculated to resist both drought and excessive moisture. It is perennial, and produces a mass of long, fibrous roots, which hold the soil, making it useful for permanent pasture on hillsides which are liable to wash. When used alone sow from six to eight pounds per acre.

Per lb., 65c; 10 to 25 lbs., at buyer's expense for freight, 60c per lb.; 100 lbs. or over and white for price.

BOKHARA SWEET OR HONEY CLOVER (*Melilotus Alba*)—A rapid-growing, white flowered sort; excellent for bees. Sow 10 lbs. per acre.

Per lb., postpaid, 50c; 100 lbs., \$45.00.

TIMOTHY (*Phleum pratense*)—Timothy is indigenous in North America, and takes its name from Timothy Hanson, who first introduced it into England. It is nutritious, and relished by all herbivorous animals, either as pasture or hay. In most soils it affords excellent pasture in the fall after the hay has been harvested. It should be cut just before or immediately on coming into bloom, as it loses much of its strength and flavor, and becomes hard and strawy, if allowed to ripen. It is perennial, sows readily on any good soil, and does not fail even on clayey lands when well prepared. It yields a moderately heavy crop of hay, that should be well cured, to prevent mold-

ing, and salted as it is mowed or stacked. To secure a good stand fifteen or twenty pounds should be sown to the acre.

Per lb., 20c; 10 to 25 lbs., at buyer's expense for freight, 18c per lb.; 100 lbs. and over, write for price.

ORCHARD GRASS (*Dactylus glomerata*)—Also known as Cock's Foot. A tall grass, having large, glossy blades. It is justly becoming more popular, as it is one of the best forage grasses known, on account of its rapid growth, being ready for grazing ten to fifteen days earlier than most other kinds, and, where the ground is kept moist, continues to grow vigorously as fast as eaten off, till late in fall, and in warm localities all winter. It yields a heavy crop of hay, and succeeds well in open timber lands. If intended for hay only, it is usually mixed with clover, as they both bloom at the same time, and can be cut when at their best. It is perennial, and has a tendency to grow in tufts, and should be sown thick. It succeeds on any good soil, and requires thirty to forty pounds per acre to secure the best results.

Per lb., 40c; 10 to 25 lbs., at buyer's expense for freight, 36c lb.; 100 lbs. and over, write for price.

RED TOP (*Agrotis vulgaris*)—Also known in some sections as Herd's Grass, and by some as English Grass and Rhode Island Bent Grass. It is perennial, and the best yield is obtained on wet and even marshy land. The blades and stalks are fine, and generally preferred for grazing; but where a good stand is secured, it affords a profitable hay crop. The seed is fine and light, and care should be taken to get sown evenly. The proper quantity is thirty pounds per acre for seed in chaff, and half that for fancy.

Red Top, in chaff, lb., 15c; Red Top, fancy, clean, free from chaff, lb., 35c.

HARD FESCUE (*Festuca Duriuscula*)—A fine, rather dwarf-growing variety, justly noted for its drought-resisting qualities. It is prized by some for lawns, and is especially valuable as a pasture for sheep, as it succeeds well sown on uncultivated land, where the soil is loose. Sow thirty pounds per acre.

KENTUCKY BLUE GRASS (*Poa pratensis*)—One of the best grasses for permanent pasture, furnishing a constant supply of the most nutritious feed during the greater part of the year. It is perennial, and in warm localities, where the ground is kept moist, and it is pastured or frequently cut, to prevent the seed from ripening, will continue to grow luxuriantly the entire year. It is also incomparably the best grass known for lawns and parks, and, where covered with fine manure every fall, watered well and evenly, and cut frequently, will furnish a handsome, velvety lawn for years, requiring no reseeding. For pasture, sow forty to fifty pounds to the acre, but to secure a fine lawn much heavier seeding is required, and not less than eighty pounds should be sown.

Fancy clean, 40c per lb.; 10 to 25 lbs., at buyer's expense for freight, 35c lb.; 100 lbs. and over, write for price.

CREeping BENT GRASS (*Agrostis stolonifera*)—Particularly valuable for lawns that are to be used as croquet and tennis grounds, because it is benefited more than hurt by tramping and by its bright color adds to the beauty of the lawn.

Lb., 75c, postpaid; for larger lots inquire for prices.

ENGLISH PERENNIAL RYE GRASS (*Lolium perenne*)—A strong-growing, hardy, perennial grass, noted for its nutritive qualities. It is equally valuable both for grazing and hay, and will succeed on any good, tillable land, if well prepared. It is easily cured, and kept either in the mow

CLOVER, GRASS AND GRAINS—Continued

or stack. Also makes a fine lawn, and for large grounds and parks is very successful. Does not require the close care that Blue Grass does, and will flourish better under trees or in shady locations. For field crop, sow forty to fifty pounds to the acre, and if used for lawns, not less than seventy-five pounds.

Lb., 25c.; 10 to 25 lbs., at buyer's expense for freight, 20c per lb.

Extra heavy for lawns and parks, lb., 30c; 10 to 25 lbs., at buyer's expense for freight, 20c lb.; 100 lbs. and over, write for price.

ITALIAN RYE GRASS (*Lolium Italicum*)—A perennial variety, extensively grown in many parts of Europe. One of its chief points of merit is its rapidity of growth. Where the seasons are short, either from limited rains or long, severe winters, this variety is found valuable. Though a distinct variety, its qualities are similar to the English Perennial, and will succeed on the same soils. From forty to fifty pounds per acre should be sown.

Per lb., 25c; 10 to 25 lbs., at buyer's expense for freight, 20c.

TALL OAT GRASS (*Avena elatior*)—Valuable in mixtures for permanent pastures in dry, gravelly soil. It is perennial, and will readily form a permanent sod with little moisture. Sow thirty or forty pounds per acre when used alone.

FINE-LEAVED FESCUE (*Festuca tenuifolia*)—One of the best of all grasses for sheep, and should be used in all mixtures for permanent pasture. It is still finer than the Hard Fescue, and, like it, succeeds on virgin soil. Sow thirty pounds per acre, if possible, just before rain.

BROME GRASS (*Bromus inermis*)—A variety coming from Hungary and the northern provinces of Turkey. It is nutritious, and yields a heavy crop, and in these respects is said to be not inferior to alfalfa. It comes highly recommended as a variety that will mature a good crop with an astonishingly small amount of moisture, succeeding where most other kinds fail. We deem it worthy a thorough trial by farmers and stock raisers, on virgin soil and in dry sections. Thirty pounds per acre should be sown.

Per lb., 35c; 10 to 25 lbs., at buyer's expense for freight, 33c lb.; 100 lbs. and over write for price.

BERMUDA GRASS (*Cynodon dactylon*)—Suitable only for climates where the winters are not below the freezing point. Particularly adapted to the Southern states, as it stands the hottest and driest season, and is very valuable for stock, being exceedingly nutritious, and for summer pasture is very valuable. Sow eight to ten pounds per acre on well-prepared land; rolling in is all that is necessary to make a sufficient covering. It is slow to germinate, requiring at least thirty days under favorable circumstances.

Per lb., \$1.00; 5 lbs., by mail or express, prepaid, \$4.50.

MIXTURE FOR DRY LANDS—Our mixture for permanent pasture is composed of a variety of grasses, selected especially for their ability to survive drought, poor soil, close feeding, and for their nutritive and lasting qualities. We recommend it as the best mixture to be had for the use for which it is designed. Thirty pounds to the acre.

Per lb., 30c; 100 lbs., \$25.00.

MIXTURE FOR LOW LANDS—Our mixture for permanent pasture on low lands is composed of seeds especially adapted for such soil, all well selected and in proper proportion. Sow 25 to 30 lbs. to the acre.

Per lb., 30c; 100 lbs., \$25.00.

SUDAN GRASS—In a search for a forage plant without rootstocks, suitable for dry sections, the Department of Agriculture introduced Sudan Grass from Egypt. It is recommended as being a great drought resisting hay and forage crop, especially adapted to hot, dry sections, but will stand considerable moisture.

Sudan Grass is an annual, and must be seeded each year, like millet and sorghum. The seed should not be sown until the ground becomes thoroughly warmed in spring. It may be broadcasted or drilled at the rate of 16 to 24 lbs. per acre, in which case it usually grows 3 to 5 feet in height; or it may be sown in rows and cultivated, at the rate of 4 to 6 lbs. per acre, and sometimes grows 6 to 9 feet high. It may be cut several times during the season, is palatable, and stock does well when fed on the hay.

Price: \$20.00 per 100 lbs.; less than sack lots, 25c per lb.

FETERITA

A non-sacharine sorghum of special value in the dry farming sections. It produces immense crops in the driest seasons and matures about a month earlier than Kaffir Corn. It makes excellent fodder or produces a good yield of grain.

Price: \$10.00 per 100 lbs.; 11c per lb.

LAWN GRASS—Nothing adds a greater air of refinement to a home than a handsome, well-kept lawn. It not only increases its value financially, but renders it doubly valuable in the higher sense of enjoyment, and is within the reach of all who have the ground to devote to it. The cost need not deter any, if leisure hours are devoted to its care. The directions we give to secure a good lawn, when using Fancy Clean Kentucky Blue Grass, will be equally successful when mixtures are sown. Cut with a lawn-mower frequently, and water thoroughly and evenly immediately after mowing. This will make it fine and velvety. This mixture includes fine perennial varieties in proper proportion to secure a close and permanent sod. Fifty to sixty pounds of seed should be sown to the acre, or one and a half pounds to a plat of ground twenty feet square.

Fine Mixed, lb., 35c; 10 to 25 lbs., at buyer's expense for freight, 30c lb.

Extra Fine Mixed, lb., 40c; 10 to 25 lbs., at buyer's expense for freight, 35c lb.; 100 lbs. and over, write for price.

MEADOW FESCUE OR ENGLISH BLUE GRASS (*Festuca Pratensis*)—A perennial variety, growing from three to four feet high. It roots deep, and on this account resists drought better than most grasses. It is extensively grown in England and on the continent. It succeeds on any ordinary soil, and well repays the labor of deep plowing and thorough harrowing in preparing the land. It yields a heavy crop of superior hay, and is one of the best kinds for pasture, as it comes early and remains green until late. It is valuable to mix with other kinds, as it sometimes succeeds where others fail. Use thirty pounds per acre when sown alone.

Lb., 45c; 10 to 25 lbs., at buyer's expense for freight, 40c.

MILLET, COMMON (*Panicum millaceum*)—A variety growing from three to four feet high, having rather broad blades and strong stalks. It supplies a valuable hay crop, and affords excellent pasturage. The seed is also extensively sold in the market and used with mixed bird-seed. It should have rich, mellow soil, well prepared. For a seed crop, sow fifteen pounds per acre; for hay and pasture, use thirty pounds. Annual.

Per lb., 20c; 10 to 25 lbs., 10c per lb.; by freight or express, charges collect; 100 lbs., write for price.

CLOVER, GRASS AND GRAINS—Continued

MILLET, GERMAN or GOLDEN (Panicum Germanicum var)—An improved variety, yielding a larger crop of seed than the Common Millet. It is also taller than the common and yields a heavier crop of hay. The grains of seeds are larger and of a deeper orange yellow. For a crop of seed, sow twelve to fifteen pounds per acre; for hay, twenty-five to thirty pounds. Annual.

Per lb., 20c; 10 to 25 lbs., 10c per lb.; by freight or express, charges collect; 100 lbs., write for price.

HUNGARIAN MILLET—A valuable species of dwarf millet, finer than the Common and German varieties, but producing a closer stand and yielding as much per acre. Requires less moisture than most other grasses to mature a profitable crop, and the hay is a favorite with stock. Sow twenty-five to thirty pounds per acre. Annual.

Per lb., 20c; 10 to 25 lbs., 10c per lb.; express or freight, charges collect; 100 lbs., write for price.

SEED POTATOES

We carry a good line of very early and medium early kinds, such as **Early Ohio, Early Wonder, Select Early Rose, Early Michigan, Daybreak**, as well as the ever popular **Burbanks**. Write for prices.

Seed Wheat Seed Rye,
Seed Oats

We carry all the leading as well as new varieties for spring and fall sowing. Write for further information and prices.

Buckwheat

SILVER HULL—A very good and popular variety. Grain is of a light gray color, rounder than the common; has a thin husk; matures earlier and yields heavy. A good milling variety.

JAPANESE—This variety excels all others; yields much heavier; ripens one week to ten days earlier; stands up better and makes better flour. Excellent for bee pasture.

Per lb., postpaid, 15c; 100 lbs., market price.

RAPE

DWARF ESSEX, for Sowing—This plant is used for pasture, or for turning under as a green manure; valuable for sheep. Sow in drills at the rate of five pounds to the acre, or broadcast, ten pounds.

Pkt., 5c; oz., 10c; lb., 20c.

Cow Peas

The so-called "Cow Peas" are really a small bean of strong running growth, with a large and abundant glossy, dark-green foliage. Most desirable for enriching the soil and for furnishing a large crop of nutritious forage. These so-called "Cow Peas" gather quantities of nitrogen from the air, a portion of which is conveyed to the soil by the roots, but a much larger amount can be stored in the soil for fertilizing by allowing the vines to die down and plowing them under. They yield as high as five to nine tons of green feed per acre. The vines may be cut either for feeding green or can be cured like clover for winter use. Sow two bushels per acre.

WHIP-POOR-WILL—The earliest maturing variety of upright or bush growth. The seeds may be gathered and the plants harvested more readily than with the running type of growth.

Per lb., postpaid, 20c; by freight or express, 10 lbs., \$1.25; 100 lbs., \$10.00.

Field Peas

Field Peas are a very profitable crop and are grown here very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas makes excellent hog feed and are quite fattening. Sow, if alone, 120 pounds to the acre; if with other grain, 60 pounds.

WHITE CANADIAN—A leading kind; seed almost white; a heavy cropper.

Per lb., postpaid, 15c; 100 lbs., \$6.50.

BLUE PRUSSIAN—Very much like the above, except in color. This variety is largely sold for soup peas.

Per lb., postpaid, 15c; 100 lbs., \$7.50.

Bird Seed

S. S. Co.'s Best Mixed, per lb., postpaid, 20c.

Canary—Best Recleaned, per lb., postpaid, 20c.

Hemp, per lb., postpaid, 15c.

Millet, per lb., postpaid, 15c.

Rape, per lb., postpaid, 20c.

Cuttle Bone, Large Bone, postpaid, 2 for 5c.

Barley

BEARDLESS—The earliest barley known. The straw is about the height of the common barley, but better, and will stand up on any land; with good season and land has produced 80 bushels per acre. Sow as early as you can; frost does not hurt it. Many farmers will not grow barley on account of the long, harsh beards which are so disagreeable in threshing, although it is a profitable crop. This is beardless and as easy to grow and handle as oats. It is becoming more popular each season.

Per lb., postpaid, 15c.

CHEVALIER BARLEY—A great improvement on the regular barley. This is much earlier, free from rust and an enormous yielder. Will outyield common barley two or three times. It stands up well and seems to be adapted to all kinds of soil. The heads are always filled with good, plump, heavy grains that have a very thin hull.

Per lb., postpaid, 20c.

COMMON BARLEY—We always aim to have a nice, clean stock of good Seed Barley on hand at all times.

Per lb., postpaid, 15c.

WHITE HULLLESS—This variety is strictly a feeding sort. It has a grain like that of wheat, with no beards or hulls. In feeding value it is almost equal to wheat and the yield is nearly twice as large. In the Northern states where corn does not mature a crop, White Hullless Barley is extremely valuable, as it produces a good quantity of feed and is very early. As a dry feed it has no superior. Write for prices.

Flax Seed

Recleaned for planting.

Per lb., postpaid, 20c; 100 lbs., \$12.50.

Flax for other purposes.

Per lb., 20c; 100 lbs., \$10.00.

Ground Flax for medicinal uses.

Per lb., 25c.

Soja Beans

A very valuable fodder plant, either for feeding green or for the silo. It is rich food and is unsurpassed for forming flesh. Sow thirty pounds per acre in the spring after the ground becomes warm. Like

CLOVER, GRASS AND GRAINS—Continued

clover, it improves the soil by drawing nitrogen from the air. Very productive.

Per lb., postpaid, 25c.

WILD RICE (*Zizania Aquatica*)—For planting in duck ponds. A valuable forage plant; also furnishes food for wild fowl, ducks, geese, etc. Seeds can be sown on the borders of lakes, ponds and small streams and grows very rapidly in one to four feet of water, attracting all of these wild birds from September on. It also purifies the water and affords a refuge for the small fry from the large fish.

Per lb.,

Prices on Field seeds are subject to market changes, but we will always send you full value, whether it be more or less, unless otherwise ordered. Special prices in quantity on request.

Vetches

SPRING VETCHES (*Vicia sativa*)—A species of pea grown for stock. Sow

broadcast sixty-five to one hundred pounds to the acre, and treat same as field peas.

Per lb., 20c; 10 to 25 lbs., 15c per lb.; 100 lbs., \$14.00; by freight or express, charges collect.

SAND, WINTER or HARDY VETCHES (*Vicia villosa*)—This variety flourishes well on poor soils. The vines are tall, and furnish a great amount of feed. If cut when full grown, it will start up again, and give a good yield of forage or seed the same season. One hundred pounds to the acre broadcast.

Per lb., 40c; 10 to 25 lbs., at buyer's expense for freight, 35c per lb.; 100 lbs. write for price.

SPELTZ—A hay and grain crop in one. Yields 50 to 100 bushels per acre and makes four to six tons of hay. Price per lb., 20c by mail; larger quantity, write for prices.

MACARONI WHEAT—Suitable for dry land, yielding very heavy crops. Per lb., 20c, postpaid; 100 lbs., market price.

VEGETABLE PLANTS

| | | | |
|---|--------|------------|--------|
| | Post- | By Express | |
| | paid. | 100 | 1000 |
| CABBAGE— | Dozen | 100 | 1000 |
| Early or late kinds..... | \$0.20 | \$1.00 | \$7.50 |
| Add 25c per 100 for Cabbage Plants by mail. | | | |

| | | | |
|---|--------|------------|---------|
| | Post- | By Express | |
| | paid. | 100 | 1000 |
| CAULIFLOWER— | Dozen | 100 | 1000 |
| Early Snowball | \$0.30 | \$1.25 | \$10.00 |
| Late kinds | .30 | 1.00 | 8.00 |
| Add 25c per 100 for Cauliflower Plants by mail. | | | |

| | | | |
|--|--------|------------|---------|
| | Post- | By Express | |
| | paid. | 100 | 1000 |
| CELERY— | Dozen | 100 | 1000 |
| Leading kinds | \$0.25 | \$1.00 | \$10.00 |
| Add 25c per 100 for Celery Plants by mail. | | | |

| | | | |
|--|--------|------------|--------|
| | Post- | By Express | |
| | paid. | 100 | 1000 |
| TOMATOES— | Dozen | 100 | 1000 |
| Leading kinds | \$0.30 | \$1.00 | \$9.00 |
| Add 40c per 100 for Tomato Plants by mail. | | | |

VEGETABLE ROOTS, ETC.

ASPARAGUS.

One-year-old plants—Postpaid, doz., 30c; 100, \$1.25. By express or freight.

Two-year-old plants—Postpaid, doz., 40c; 50, \$1.00; 100, \$1.50. By express or freight,

Write for prices if wanted by the thousand.

HORSE RADISH ROOTS.

Postpaid, each, 5c; doz., 50c. By express or freight, 100, \$2.50.

HOP VINES.

Strong roots—Postpaid, each, 5c; doz., 40c. By express, 100, \$1.50.

We can make very low prices if wanted by the thousand.

RHUBARB ROOTS.

Varieties—Mammoth, Giant and Linnaeus.
One-year-old roots—Postpaid, each, 8c; doz., 75c. By express or freight, 100, \$3.00.

Two-year-old roots—Postpaid, each, 15c; doz., \$1.50. By express or freight, 100, \$6.00.

If wanted in larger quantities, write for special prices.

Fertilize With Air!

RESTORE THE NITROGEN to your worn-out soil and inoculate your new ground with fresh, virile, nitrogen-fixing bacteria

YOU CAN DO IT WITH

TRADE **FARMOGERM** MARK

A pure culture of the most active nitrogen gathering bacteria

NITROGEN is the most important and expensive plant food. The air is four-fifths nitrogen—the soil is full of air—but plants cannot absorb it without the aid of nitrogen gathering bacteria.

FARMOGERM make this vast storehouse of nitrogen quickly available. A one-acre packet costing \$2.00 used on a leguminous crop will gather and store nitrogen equivalent to 1,000 pounds of nitrate of soda and at the same time greatly increase the growing crop.

¶ To insure a Stand—Increase the Yield—Build up your Soil—always inoculate CLOVERS, ALFALFA, PEAS, BEANS, VETCH, COW PEAS, SOJA BEANS with **FARMOGERM**—easily applied—just sprinkle the seed before planting.

An eminent authority states, "I would as soon think of preparing an alfalfa field without seed as to sow the seed without inoculation." (See Farmers' Bulletin No. 257 U. S. Dept. of Agriculture.)

Absolute PROOF is the name of a booklet, full of unsolicited endorsements from experimental stations, agricultural colleges and other high authorities. This booklet and full information on request.

¶ **FARMOGERM** is prepared for Alfalfa all Clovers, Canada Field Peas, Cow Peas, Garden Peas and Beans, Soja Beans, Vetches and Sweet Peas.

Prices—Postpaid—Garden size, 50c; 1-Acre size, \$2.00 5-Acre size, \$7.50. When ordering be sure to state just what you want to inoculate.

ALLCROP FARMOGERM

While Farmogerm (liquid form) will give best results, there are some who prefer a cheaper article put up in dry form. For these we can supply Allcrop Farmogerm, which carries over 37 different strains of Bacteria and will inoculate any legume crop. All the different strains of Legume Bacteria in a single can.

Prices—One Acre size, \$1.00; 5 Acre size, \$4.00; postpaid.

MULFORD NITRO-GERM

We have in stock Mulford's Nitro-Cerm in small sizes, for garden crops, at 25c per bottle; by mail, 30c. Can only furnish for Garden Peas, Sweet Peas and Garden Beans State what you want when ordering.



FLOWER SEED DEPARTMENT



GENERAL DIRECTIONS FOR CULTURE

Flowers generally succeed best in a sandy loam, made rich with well-rotted manure, which should be made fine and thoroughly mixed with the soil. A soil thus prepared will remain moist and loose, so that flower seeds, which are generally small and delicate, will germinate and grow with vigor.

The mistake is often made of working the soil when too wet, so that in drying it bakes and cracks. The soil should always be dry enough to work up mellow, and crumble when struck with a spade.

If fine seed is to be planted, make the surface even with a piece of board; sow the seeds, and then carefully sift a little dirt over them, after which water with a watering-pot, having a fine nose. Shade from the hot sun until well up. Larger seeds should be planted deeper. A hot-bed or cold frame is very convenient to start seeds in, as the temperature and moisture can be so regulated as to make

their germination and rapid growth more certain. Most seeds do well if sown in boxes in a sunny window in the house. Plants are usually ready to be transplanted when they have made a growth of two inches. It is a very common mistake to let them stand so close together as to crowd each other. Give each plant plenty of room, according to its habit of growth.

All plants, and especially annuals, exhaust themselves in maturing seeds, consequently, to insure the health of the plant, and concentrate its full vigor in the continued production of an abundance of the finest blossoms, the flowers should all be taken from the stem when in full bloom, or at least as soon as the petals begin to wither or fall.

Many annuals, in warm climates, or when taken in or protected during the winter, become perennial, with, however, but short lives.

LIST OF CHOICE FLOWERS

Worthy of Special Attention, Embracing

ANNUALS, BIENNIALS, PERENNIALS, CLIMBERS AND EVERLASTINGS

All Flower Seeds Sent Free by Mail on Receipt of Price Placed Opposite Each Variety

ABRONIA

Mixed, Pkt., 10c.

ABUTILON

(Flowering Maple.)

Fine mixed hybrids, pkt., 25c.

ACROCLINIUM

(Everlasting Flower.)

Album—Pure White Pkt., 5c

Mixed—All colors Pkt., 5c

AGERATUM

Mexicanum—Light blue Pkt., 5c

White—Dwarf Pkt., 5c

Fine Mixed—All colors Pkt., 5c

AGROSTEMMA

Thrives in any good soil.

Coronaria (Rose Champion)—Perennial.

..... Pkt., 5c

AGROSTIS

(Ornamental Grass.)

Nebulosa—One of the most graceful....

..... Pkt., 5c

Pulchella—Very fine and delicate.. Pkt., 5c

ALYSSUM

White Sweet—Very fragrant; useful in bouquets. Hardy annual Pkt., 5c

Golden Alyssum (Saxatile)—The golden yellow flowers are desirable for rock-work and masses in beds. Hardy perennial Pkt., 5c

AMARANTHUS

Caudatus (Love Lies Bleeding)—Drooping flowers Pkt., 5c

Cruentus (Prince's Feather)—Erect flowers Pkt., 5c

Tri-Color (Joseph's Coat)—Beautifully variegated, foliage scarlet, yellow and green Pkt., 5c

ARISTOLOCHIA-SIPO

(Dutchman's Pipe.)

Hardy perennial Pkt., 10c

ASPERULA

Fine for borders Pkt., 5c

ASTERS

Truffaut's Paeony Flowered Perfection—Full flower, perfect in form. Choice mixed Pkt., 10c

New Rose—Ten finest varieties, mixed.. Pkt., 10c

Dwarf Bouquet—Grows a mass of choice flowers. Fine for beds and borders. Splendid mixed Pkt., 10c

Victoria—Very handsome, well-formed plant. Flowers of beautiful globular form. Twelve splendid varieties, mixed Pkt., 10c



LIST OF CHOICE FLOWERS—Continued



QUEEN OF THE MARKET ASTER.

- Washington—Extra double, large flowering, vigorous growth, delicate colors. Extra mixedPkt., 15c
- Dwarf Chrysanthemum**—Dwarf, compact habit. Large flowers. Very free blooming. MixedPkt., 10c
- Japanese**—A very distinct and attractive class. The plants are vigorous producing large, beautiful flowers, having long, tubular and twisted petals. Pkt., 10c
- German Quilled**—Large flowers of brilliant colors, freely produced. All colorsPkt., 5c
- Betteridge's Quilled**—Extra mixed. Pkt., 10c
- Snow White**—Desirable for bridal or funeral decorationPkt., 10c
- Fine Mixed**—Assorted varieties and colors. In great varietyPkt., 10c

BACHELOR'S BUTTON

(Centaurea Cyanus.)

- PinkPkt., 5c
- BluePkt., 5c
- WhitePkt., 5c
- Choice MixedPkt., 5c

BALLOON VINE

- (Cardiospermum—Love in a Puff.) Pkt., 5c.

BALSAM

(Ladies Slipper—Touch-Me-Not.)

Hardy annual, easily grown.

- Double White**—Extra choice.Pkt., 10c
- Camellia Flowered Double**—Finest mixedPkt., 10c
- Rose Flowered**—Double mixed.Pkt., 10c
- Double Dwarf**—MixedPkt., 5c
- Double Tall**—MixedPkt., 5c

BARTONIA

- Golden Bartonla—Very finePkt., 5c

BRIZA or QUAKING GRASS

Hardy annual.

- Maxima**—LargePkt., 5c
- Gracilis**—Dwarf, slenderPkt., 5c

BROWALLIA

- MixedPkt., 5c

BRYONOPSIS

Pkt., 5c.

CACALIA

(Tassel Flower.) Hardy annual.

- Mixed—All colorsPkt., 5c

CALANDREINIA

- Grandiflora**—Rosy lilac.Pkt., 5c
- Speciosa Alba**—Dwarf. Very fine.Pkt., 5c

CALCEOLARIA

- Grandiflora**—Large flowered, self-colored, splendid, robust, profuse bloomers.Pkt., 25c
- Hybrida**—Tigred and spotted, brilliant. Finest mixturePkt., 25c

**CALLIOPSIS or COREOPSIS**

- Choice MixedPkt., 5c

CALLIRHOE

- Pedata**—Dark redPkt., 5c
- Nana Compacta**—New. Very dwarf and compact. A profuse bloomer.Pkt., 5c
- Verticillata**—A trailing variety, bearing a profusion of crimson-purple flowersPkt., 5c

- CAMPANULA MEDIUM**—See Canterbury Bell.

CANARY BIRD FLOWER

(Tropaeolum Canariense.)

- Half-hardy annual, of rapid growth. YellowPkt., 5c

CANDYTUFT

(Iberis.)

- PurplePkt., 5c
- WhitePkt., 5c
- Dwarf Mixed**—Compact habit.Pkt., 10c
- Fine Mixed**—All colorsPkt., 5c

CANTERBURY BELL

(Campanula Medium.)

- Double and Single**—BluePkt., 10c
- Double and Single**—WhitePkt., 10c
- Double and Single**—MixedPkt., 5c

- CARDIOSPERMUM**—See Balloon Vine.

CARNATIONS

(Dianthus Caryophyllus.)

- Early Flowering Vienna**—Extra MixedPkt., 10c
- Double Red**—A splendid variety for floristsPkt., 15c
- Double White**—Very finePkt., 25c
- Double Yellow**—ChoicePkt., 25c
- Carnation Marguerite**Pkt., 5c
- Fine Double Mixed**—All colors.Pkt., 10c
- Extra Choice Double Mixed**—From superb varieties, including Flakes, Bizarres and Selves.Pkt., 25c

LIST OF CHOICE FLOWERS—Continued

CASTOR BEAN

(Ricinus.)

- Tranguineus**—Brilliant scarlet.....Pkt., 5c
Borboniensis Arboreus—The largest variety. Tall and stately.....Pkt., 5c
Mixed—Best varietiesPkt., 5c

CATCHFLY

(Silene.)

- White**Pkt., 5c
Red—Very finePkt., 5c
Fine Mixed—All colorsPkt., 5c

CELOSIA

- Plumosa**—Mixed colors of great brilliancyPkt., 25c
Argentea—Bears long, silver-white plumes which, when dried, are fine for winter bouquets.....Pkt., 10c

CENTAUREA.

(Dusty Miller.)

- Candidissima**—The finest, handsome silver foliage. Leaves deeply indented. Half-hardy perennialPkt., 15c
Gymnocarya—Foliage silver gray, drooping, graceful. Perennial.....Pkt., 10c
Americana—Blue flowers. Annuals.....Pkt., 5c
Moschata (Sweet Sultan)—Blue, yellow, and white mixed.....Pkt., 5c

CHRYSANTHEMUM

- Frutescens Marguerite, or Paris Daisy**—White and yellow flowers.Pkt., 10c
Burridgeanum (Lord Beaconsfield)—White and rose. Very finePkt., 5c
Venustum—White, crimson center.Pkt., 10c
Japonicum—Extra choice mixed, from the finest Japanese varieties. PerennialPkt., 25c
Double WhitePkt., 5c
Double YellowPkt., 5c
Eclipse—Tricolor. Purplish scarlet, brown and yellow. Choice.....Pkt., 5c
Mixed—Very choice double.....Pkt., 5c

CINERARIA

- Hybrida**—Double. Mixed. Extra choicePkt., 25c
Hybrida Nana—Mixed, Dwarf. Free floweringPkt., 25c

CLARKIA

- Finest Mixed**Pkt., 5c

CLEMATIS

- Flammula**—Covered with handsome tufts of white flowers....Pkt., 5c
Mixed Hybrida—All the choice varietiesPkt., 10c

CLOVER, Sweet Scented.
 (Trifolium Suaveolens.)
 Pkt., 10c.

COBEA SCANDENS

- Tender Perennial**Pkt., 5c

COCKSCOMB

(Celosia Cristata.)

- Variegated**—Combs beautifully variegated with crimson and gold.Pkt., 10c
Japan—New and magnificent combs, massive and fine.....Pkt., 10c
Dwarf Mixed—Finest dwarf varieties; combs as large as the taller sortsPkt., 10c
Fall Mixed—The best tall varietiesPkt., 10c

COLUMBINE

(Aquilegia.)

- Chrysantha**—Golden yellow. Fine.Pkt., 10c
Double White—Very handsome....Pkt., 10c
Mixed—Best double and single varieties. Very finePkt., 5c

COSMOS

- Hybrida Giant Mixed**Pkt., 5c
Dawn—An early-flowering strain; flowers pure whitePkt., 5c

COWSLIP

(Dodecatheon Meadia.)

- Choice Mixed**Pkt., 25c

CYPRESS VINE

(Ipomoea Quamoclit.)

- White**Pkt., 5c
ScarletPkt., 5c
Mixed—All colorsPkt., 5c

DAISY

(Bellis Perennis.)

- Double White**Pkt., 10c
Double MixedPkt., 10c

DAKTURA

(Trumpet Flower.)

- Double Mixed**—All colors.....Pkt., 5c

ESCHSCHOLTZIA

(California Poppy.)

- California**—Yellow, orange center.Pkt., 5c
Mandarin—The colors of the petals are orange inside, brilliant scarlet outside. ChoicePkt., 5c
Mixed—All colors, very fine.....Pkt., 5c
Mammoth Package California PoppyPkt., 10c

FEVERFEW

(Matricaria Capensis.)

- Best Double White**Pkt., 10c

FORGET-ME-NOT

(Myosotis.)

- Dissitiflora**—Deep bluePkt., 10c
Palustris—Light bluePkt., 5c
Mixed—Choice, all shades.....Pkt., 10c

FOUR O'CLOCK

(Mirabilis—Marvel of Peru.)

- Choice Mixed**—Self-colored and variegated, in great variety....Pkt., 5c

FOX GLOVE

(Digitalis.)

- Extra Mixed**Pkt., 5c

GALLARDIA

- Grandiflora**—Choice mixed. All colorsPkt., 5c
Picta - Lorenziana — Magnificent flowers, resembling some varieties of Japanese chrysanthemums. Various colors and shades. Very desirablePkt., 5c

GLOBE AMARANTH

(Gomphrena.)

- Purple**Pkt., 5c
WhitePkt., 5c
Mixed—All colorsPkt., 5c

GODETIA

- Best Varieties, Mixed**Pkt., 5c

GOLDEN FEATHER

Pkt., 5c.

GOURDS

(Cucurbita.)

- Orange**Pkt., 5c
Egg-Shaped—White, very useful for nest-eggs. Does not crack or decayPkt., 5c
Dipper or Bottle—Useful and handsomePkt., 5c
Hercules' Club — Club - shaped Large and longPkt., 5c
Mixed—Seed saved from the most useful, elegant and unique varietiesPkt., 5c

LIST OF CHOICE FLOWERS—Continued

| | | |
|---------------------------------------|-----|---------------------------------------|
| GYPSOPHILA | | |
| Muralis—Pink. Hardy annual....Pkt., | 5c | Prince of Orange, Calendula— |
| Paniculata—White, Best for winter | | ChoicePkt., |
| bouquets. Hardy perennial.....Pkt., | 5c | Double Mixed, Calendula—All |
| | | shades. ChoicePkt., |
| HELICHRYSUM | | African, Tagetas—Double Mixed...Pkt., |
| (Eternal Flower.) | | |
| White—Mixed, dwarf and tall....Pkt., | 5c | |
| Mixed—Dwarf and tall. All colors. | | MAURANDIA. |
| Very elegantPkt., | 5c | Finest Mixed ColorsPkt., |
| | | 10c |
| HIBISCUS | | |
| Extra MixedPkt., | 5c | MIGNONETTE. |
| | | (Reseda.) |
| HOLLYHOCK. | | Roseda Odorata Grandiflora—The |
| (Althea.) | | well-known large flowering Sweet |
| Double Yellow—ChoicePkt., | 10c | MignonettePkt., |
| Double White—Very largePkt., | 10c | 5c |
| Double Scarlet—SuperbPkt., | 10c | Crimson-Flowered Giant—Large |
| Double Choice Mixed—All colors | | spikes of crimson flowers.....Pkt., |
| and many shades. Very fine....Pkt., | 5c | 5c |
| | | Parson's New White—New and val- |
| HYACINTH BEAN | | uablePkt., |
| (Dolichos) | | 5c |
| Giganteus — Tall-growing; large, | | New Hybrid Sparg—A strong grow- |
| purple flowersPkt., | 5c | er, abundant bloomer. Very frag- |
| Lablab—MixedPkt., | 5c | rantPkt., |
| | | 5c |
| | | Golden Queen—Very fine, new va- |
| | | riety, with flowers of a golden |
| | | hue. Highly effective.....Pkt., |
| | | 5c |
| IPOMOEA | | |
| Bona Nox — Large, fragrant, vio- | | MIMULUS. |
| let-blue flowers, opening toward | | (Monkey Flower.) |
| evening, the name meaning good | | Hybridus Tigrinus — Most beauti- |
| nightPkt., | 5c | ful spotted blotched varieties. |
| Limbata Elegantissima—Rich, pur- | | MixedPkt., |
| ple center, margined with white.Pkt., | 5c | 10c |
| Fine Mixed—All colorsPkt., | 5c | Hybridus Tigrinus Flore Pleno— |
| | | Beautiful, double-spotted varie- |
| | | ties. MixedPkt., |
| | | 10c |
| IPOMOPSIS | | |
| (Standing or Tree Cypress.) | | MOON FLOWER. |
| MixedPkt., | 5c | (Ipomoea Grandiflora.) |
| | | Pkt., 15c. |
| JERUSALEM CHERRY | | |
| (See Solanum Capsicastrum.) | | MORNING GLORY. |
| | | (Convolvulus Major and Minor.) |
| KAULFUSSIA | | Blue—TallPkt., |
| Mixed—All colorsPkt., | 5c | 5c |
| | | White—TallPkt., |
| | | 5c |
| | | Tall Mixed—All colorsPkt., |
| | | 5c |
| | | Dwarf Mixed—Convolvulus Minor. |
| | | All colorsPkt., |
| | | 5c |
| LAGURUS | | Giant Japanese Morning Glory— |
| (See Hare's Tall Grass.) | | Flowers of immense size, with |
| | | an almost endless variety of |
| | | color and markingsPkt., |
| | | 5c |
| LANTANA | | |
| Finest Hybrids—MixedPkt., | 5c | MUSK PLANT. |
| | | (Mimulus Moschatus.) |
| | | Pkt., 10c. |
| LARKSPUR | | |
| (Delphinium.) | | NASTURTIIUM. |
| Dwarf Rocket MixedPkt., | 5c | (Tropaeolum.) |
| Tall Stock-Flowered—Mixed, Per- | | Tall Varieties. |
| ennialPkt., | 5c | (Tropaeolum Lobbianum.) |
| Bismarck—Robust habit, stock | | Spitfire—Bright ScarletPkt., |
| flowered, red striped. Very fine. | | 5c |
| Candelabrum - Formed — Stalks | | CarminePkt., |
| branching like a candelabrum. | | 5c |
| AnnualPkt., | 10c | King of the BlacksPkt., |
| Bee—Elatum. Mixed. Perennial..Pkt., | 5c | 5c |
| Nudicaule—Scarlet. Perennial...Pkt., | 10c | Blood RedPkt., |
| Formosum—Dark blue. Perennial..Pkt., | 5c | 5c |
| Mixed—Annuals. All colors.....Pkt., | 5c | Golden YellowPkt., |
| | | 5c |
| | | Lobbianum—Finest mixedPkt., |
| | | 5c |
| | | Mammoth Package Tall Mixed Va- |
| | | rietiesPkt., |
| | | 10c |
| LINUM | | |
| (Scarlet Flax.) | | Dwarf Varieties. |
| Best Mixed—Many colors and | | (Tropaeolum Minor.) |
| shadesPkt., | 5c | Pearl WhitePkt., |
| | | 5c |
| | | Dark CrimsonPkt., |
| | | 5c |
| | | Golden King—FinePkt., |
| | | 5c |
| | | Empress of IndiaPkt., |
| | | 5c |
| | | Dwarf Mixed—All colors |
| | | Pkt., 5c |
| LOBELIA | | |
| Crystal Palace - Compacta—Very | | NICOTIANA. |
| dwarf. BluePkt., | 5c | (Affinis.) |
| Gracilis—Blue, Spreading, fine for | | NOLANA. |
| basketsPkt., | 5c | Pkt., 5c. |
| Alba—Pure WhitePkt., | 10c | PAEONY. |
| Finest MixedPkt., | 10c | (Herbacea Chinensis.) |
| | | Choice Mixed Double—Form a |
| | | splendid collectionPkt., |
| | | 25c |
| LUPIN. | | |
| (Lupinus.) | | |
| Cruikshanski—Dark blue annual ..Pkt., | 5c | |
| Mixed—Best annual varieties of all | | |
| colorsPkt., | 5c | |
| | | |
| MARIGOLD. | | |
| (Calendula and Tagetes.) | | |
| Meteor, Calendula—Flowers strip- | | |
| ed dark and light orange. Dou- | | |
| ble. Very finePkt., | 5c | |

LIST OF CHOICE FLOWERS—Continued

PAMPAS GRASS.

(Gynierium Argenteum.)

Pkt., 5c.

PANSY.

| | |
|---|-----------|
| Azure Blue | Pkt., 10c |
| Emperor William—Indigo; dark center | Pkt., 10c |
| King of the Blacks—Velvety black | Pkt., 10c |
| Mahogany Colored—One of the very best | Pkt., 10c |
| Odier—New French blotched | Pkt., 15c |
| French Large Flowering—Mixed | Pkt., 10c |
| Lord Beaconsfield—Purple, shading to light blue. Large and fine | Pkt., 10c |
| Pure Yellow | Pkt., 10c |
| Snow Queen—Pure White | Pkt., 10c |
| Trimardeau—The flowers of this variety are the largest of any pansy yet produced, and for variety and beauty of marking, brilliance of color, and stability, have no superior | Pkt., 10c |
| Fine Mixed | Pkt., 5c |

PINK.

(Dianthus.)

| | |
|---|-----------|
| Double China Mixed | Pkt., 5c |
| Double White | Pkt., 10c |
| Double Diadem—Finest mixed. All colors | Pkt., 5c |
| Double Imperial—Fine mixed | Pkt., 5c |
| Double Japan—Beautiful fringed varieties. Mixed | Pkt., 5c |

POPPY.

(Papaver.)

| | |
|---|----------|
| The Shirley—A strain of marvelous beauty, with colors ranging from pure white to rose, pink, carmine, and brilliant crimson; some are edged with white. The petals have a glossy, silk-like texture | Pkt., 5c |
| Double Scarlet—Carnation flowered | Pkt., 5c |
| Double White—Carnation flowered | Pkt., 5c |

**PASSION FLOWER.**

(Passiflora.)

| | |
|--|-----------|
| Coerulea—Handsome blue and white flowers | Pkt., 10c |
| Coerulea—Choice mixed | Pkt., 20c |

PENTSTEMON.

| | |
|---|----------|
| Fine Mixed—All colors. Very showy | Pkt., 5c |
|---|----------|

PERILLA.

(Nankinensis.)

| | |
|------------------|----------|
| Best Mixed | Pkt., 5c |
|------------------|----------|

PETUNIA.

| | |
|--|-----------|
| Double Mixed—Choice hybrids, best, all colors | Pkt., 20c |
| Large Flowering Fringed—Mixed | Pkt., 15c |
| Blotched and Striped | Pkt., 15c |
| Grandiflora—Best mixed. Large.. flowering. Many colors and varieties | Pkt., 10c |
| Pure White | Pkt., 5c |
| Fine Mixed—In great variety | Pkt., 5c |

PHLOX DRUMMONDII.

| | |
|---|-----------|
| Alba—Pure white | Pkt., 10c |
| Black Warrior—Dark purple | Pkt., 10c |
| Scarlet | Pkt., 10c |
| Yellow | Pkt., 10c |
| Finest Mixed—Including large, flowering kinds | Pkt., 5c |

Double Mixed—In great variety

| | |
|-------------------|----------|
| Very choice | Pkt., 5c |
|-------------------|----------|

PORTULACA.

| | |
|--------------------|-----------|
| Single Mixed | Pkt., 5c |
| Double Mixed | Pkt., 10c |

PRIMROSE, EVENING.

(Oenothera.)

| | |
|--|----------|
| Lamarkiana—Height four * feet, with gorgeous yellow flowers, three or four inches across | Pkt., 5c |
| Aculis Alba—Dwarf, producing large beautiful, pearl-white flowers. Hardy perennial, prostrate habit, six inches high | Pkt., 5c |

PRIMULA SINENSIS.

(Chinese Primrose.)

| | |
|--|-----------|
| Fimbriata—Choice fringed varieties mixed | Pkt., 25c |
| Alba—Pure white | Pkt., 25c |
| Fern-Leaved Choice Mixed | Pkt., 25c |
| Extra Mixed—In great variety | Pkt., 25c |

PYRETHRUM.

| | |
|--|-----------|
| Roseum—Dried flowers of this variety, pulverized, form Persian insect powder | Pkt., 10c |
| Choice Mixed | Pkt., 10c |

RHODANTHE.

| | |
|------------------------------|----------|
| Extra Mixed—All colors | Pkt., 5c |
|------------------------------|----------|

LIST OF CHOICE FLOWERS—Continued

Finest MixedPkt., 5c

SALVIA.

(Flowering Sage.)

Salvia Splendens—Bright scarlet...Pkt., 10c

Salvia Patens—Pure bluePkt., 10c

Salvia—MixedPkt., 10c

SCABIOSA.

(Morning Bride.)

Finest Double Mixed Dwarf—All
colorsPkt., 5c**SCARLET FLAX.**

(See Linum.)

SCHIZANTHUS.Fine Mixed Varieties—Of all col-
orsPkt., 5c**SENSITIVE PLANT.**

(Mimosa.)

Tender AnnualPkt., 5c

SMILAX.

Pkt., 5c.

SNAPDRAGON.

(Antirrhinum.)

Tall Varieties MixedPkt., 5c

Dwarf Varieties MixedPkt., 5c

SOLANUM.Capsicastrum—Jerusalem Cherry,
or miniature orange tree. Cov-
ered with small scarlet fruit....Pkt., 10c
Fine mixedPkt., 15c**STOCKS.**

Double German Ten-Weeks—Mixed.Pkt., 5c

Double Ten Weeks—Pure White...Pkt., 10c

Emperor or Perpetual—Beautiful
colors. Mixed perennial.....Pkt., 15c

Brompton—Mixed, all colors.....Pkt., 15c

***SUNFLOWER.**

(Helianthus.)

Double Orange—Californicus.....Pkt., 5c

Globosus Pistulosus—Large, deep
yellow. Very double.....Pkt., 10cMammoth Russia—Largest single
variety. (See also Vegetable
List)Pkt., 5c**SWEET PEAS**

CULTURE—Plant the seed in rich, mel-
low soil, taking care not to cover it more
than two inches. When the plants are
about five inches high, furnish support for
the vines to run upon. Cut the flowers
freely, for, if the seed-pods are allowed
to form, the plants will soon stop flowering.

We always add the new varieites to our
list; if not listed here, write us.

SALPIGLOSSIS.**New Spencers****A Splendid Collection, Inclnding the Best
of the Recent Novelties**

The new "Spencer" type has lovely
waved and fluted flowers of gigantic size,
and in exquisite colorings, length f stem,
and lasting qualities are much superior to
the older types. "Spencers," however, are
very shy seeders and require much careful
selection to develop fixed types. The
seed is therefore scarce, and cannot be
cheaply produced.

AMERICA—Spencer. The largest and
finest of its class. Pure satiny white,
striped and splashed brilliant crimson; 4
flowers of perfect form borne on long
stems. Pkt., 10c; ½ oz., 20c.

APPLE BLOSSOM SPENCER—A truly
giant flower; color standard rose with
deeper veining, wings light carmine, ground
color primrose.

Pkt., 10c; ½ oz., 20c; oz., 35c.

ASTA OHN—Lavender, suffused with
mauve; of perfect form, largest size, 4 blos-
soms on long, strong stems; very vigorous.

Pkt., 10c; ½ oz., 25c; oz., 45c.

AURORA SPENCER—Ground color

LIST OF CHOICE FLOWERS—Continued

cream white, exquisitely flaked and mottled; rich orange salmon, extra large, free-blooming.

Pkt., 10c; ½ oz., 20c; oz., 30c.

CONSTANCE OLIVER. A clear, rich pink on cream ground; of true Spencer type; best of its color.

Pkt., 10c; ½ oz., 20c; oz., 35c.

COUNTESS SPENCER—Pink. The first Sweet Pea of the Spencer type. Flowers extremely large, beautifully expanded, crumpled and waved. Color silvery white, suffused and tinted with soft shell pink, deeper at the outer edges.

Pkt., 10c; ½ oz., 20c; oz., 35c.

DAINTY—Spencer. A pure, glistening white with distinct margining of bright rose pink; comes four blossoms on long stems. Dainty is all its name implies and is the best picotee edge yet produced; very large and wavy.

Pkt., 10c; ½ oz., 20c; oz., 35c.

FLORA NORTON—Bright blue with just a tinge of purple, fine Spencer form.

Pkt., 10c; ½ oz., 20c; oz., 30c.

HELEN LEWIS—A giant flower of perfect form, standard rich crimson orange, wings orange rose; open form, full, wavy.

Pkt., 10c; ½ oz., 20c; oz., 25c.

KING EDWARD SPENCER—Bright crimson scarlet, largest size, wavy standard; drooping wings, very long stems; one of the finest bright reds.

Pkt., 10c; ½ oz., 20c; oz., 35c.

MAUDE HOLMES—Spencer. A brilliant sun-proof crimson of the largest size. Of true Spencer form, wavy and fluted.

Pkt., 10c; ½ oz., 20c; oz., 35c.

MRS. ROUTZAHN—Color, a soft straw tinted with bluish pink, shading to apricot and rose at the edges, with a distinct rose margin; of immense size; one of the finest Spencers.

Pkt., 10c; ½ oz., 25c; oz., 40c.

MRS. WALTER WRIGHT—A distinct bright shade of rosy mauve, extra large, fine flower, waved and ruffled, vigorous and free-flowering.

Pkt., 10c; ½ oz., 30c; oz., 50c.

OTHELLO SPENCER—Very deep maroon of largest Spencer type; wings very wavy, large graceful flower; best of its color.

Pkt., 10c; ½ oz., 20c; oz., 35c.

PRIMROSE SPENCER—Color, a true primrose. Very vigorous, free-flowering, excels in beauty of form, length of stem and keeping qualities.

Pkt., 10c; ½ oz., 25c; oz., 45c.

QUEEN ALEXANDRA—Spencer. We will all welcome Queen Alexandra in Spencer form, as there is no better bright, intense scarlet, sunproof Sweet Pea. Of large, full, waved form. Free-flowering and vigorous.

Pkt., 10c; ½ oz., 20c; oz., 35c.

SENATOR—Spencer. Of finest Spencer form and largest size. The coloring is a combination of deep claret and chocolate, striped and flaked on a light heliotrope ground. The coloring, though dark, is brilliant and attractive. A free-flowering, vigorous grower of greatest merit.

Pkt., 10c; ½ oz., 20c; oz., 30c.

THOMAS STEVENSON—The most brilliant orange scarlet, standard of deeper color than the wings. The flowers are of the finest Spencer form and generally come four to the stem.

Pkt., 20 seeds, 10c; ½ oz., 40c; oz., 75c.

WHITE SPENCER—A pure white flower of enormous size, beautifully crinkled and fluted, of splendid substance.

Pkt., 10c; ½ oz., 25c; oz., 45c.

Grandiflora Type of Sweet Peas

Prices: Pkt., 5c; oz., 10c; ¼ lb., 35c; 1 lb., \$1.00.

WHITE.

Blanche Burpee—One of the best pure white varieties.

Emily Henderson—The best white in cultivation; the flowers are of the largest size and pure white. A vigorous grower and free bloomer.

Mrs. Sankey—Although this is classed as a pure white, in some lights it shows a tinge of warm shell pink which is very delicate and beautiful.

Queen of England—One of the best of the pure whites.

VERY LIGHT PINK, ALMOST WHITE.

Lemon Queen—Standards very light pink and light straw, blended and shaded on white.

Modesty—White, tinted with pink.

Ramona—Blush and white striped, of good size and form.

Sensation—Large flowers, light buff, blush and white.

LIGHT PINK AND PRIMROSE.

Coquette—Standard, mauve and fawn, blended on primrose; wings, primrose.

Lottie Hutchins—Primrose, striped with pink. Very beautiful.

Stella Morse—Buff, with tint of pink, showing a little deeper at the edges; standard and wings the same.

PALE YELLOW OR PRIMROSE.

Mrs. Eckford—White, shaded with primrose; delicate and rich.

Queen Victoria—Light primrose yellow; very hardy and of good substance.

SHADES OF PINK.

Blushing Beauty—Light pink, with a suggestion of mauve.

Katherine Tracy—Soft, beautiful pink in color; a free bloomer; very vigorous and hardy.

Mrs. Gladstone—Large, beautiful flowers; standards, delicate soft pink.

Prima Donna—Very large, perfect flowers of a brilliant yet soft shade of pink.

Princess Beatrice—Standard, light pink, shaded with buff. Wings, bright rose pink.

Royal Robe—Bright, rose-pink flowers; very large, hooded form.

Venus—A soft, salmon-buff self-color; of large size and hooded form. While a vigorous grower, it is graceful, delicate and decidedly attractive.

ROSE AND PINK.

Apple Blossom—Standard crimson pink. wings white, tinged and shaded with pink.

Blanche Ferry, Extra Early—The earliest sweet pea in cultivation; the large pink and white flowers are very showy; the plant is vigorous and an exceedingly free bloomer.

Crown Jewel—Violet rose and primrose. A very beautiful sort.

Eliza Eckford—Large flower. Rosy pink over white ground. Exceedingly delicate.

Isa Eckford—Delicate creamy-white and rosy-pink flowers; of beautiful form.

Lovely—Large, beautiful flowers. A delicate shade of pink.

Royal Rose—Standard, deep rose pink; wings a lighter shade of the same color. One of the largest and best of the pink sorts.

ORANGE AND PINK.

Aurora—Striped and flaked with delicate, orange-salmon pink over white ground. Very brilliant and beautiful.

Lady Mary Curry—Crimson orange pink, very delicate and beautiful.

Lady Penzance—Orange pink, showing veins of orange rose.

LIST OF CHOICE FLOWERS—Continued

Mrs. Joseph Chamberlain—White, striped with bright rose carmine. Very distinct and striking.

Orange Prince—Standards, pink, suffused with orange; wings, bright lake pink. Very distinct in color.

Oriental—Deep orange pink, of good substance, very large and finely formed.

LAVENDER AND MAUVE.

Butterfly—White, tinted with lilac; very delicate and beautiful.

Captain Clark—Standard, white, shaded lightly with crimson. Wings, white, shaded with lavender.

Captivation—Standard, magenta. Wings, same, with a suggestion of purple; almost self-colored. This is a distinct shade in sweet peas.

Countess of Radnor—Self-colored in a very distinct and beautiful shade of lavender.

Dorothy Tennant—Rose purple, self-colored. Large size, very distinct and beautiful.

Emily Eckford—Rose purple, suffused with blue.

Gray Friar—Heliotrope, marbled on white. Large size, hooded form.

Juanita—Large, beautiful flowers. Pure white, striped with a delicate shade of lavender.

Lady Nina Balfour—Standard mauve, wings lavender. Large and finely formed.

Lottie Eckford—Standard, a delicate shade of magenta blue; wings, shaded lavender, deepening into violet at edge.

Maid of Honor—Standard, white, shaded with lilac. Wings, white, shaded with lavender.

BRIGHT RED

America—White, nearly covered with splashes, stripes and dots of bright carmine. Very brilliant.

Cardinal—Deep, rich, carmine-red flowers of robust habit, and one of the brightest reds in cultivation.

Firefly—An intense crimson scarlet, of large open and expanded form. One of the best bright reds yet offered, and its fiery coloring makes it a most desirable bouquet variety.

Igneal—Bright red. Practically self-colored, though wings are more crimson in well-matured blossoms.

Mars—Bright red, self-colored. Rather above medium size. Hooded form.

Salopian—Flowers are of grand size and well expanded form. Standards quite broad, of good substance, slightly pointed, with the upper edges well recurved. Coloring is a vivid red. The wings are large, slightly recurved, deep red, tinged with rose.

Sunproof—Color intense fiery red; one of the richest-colored sorts yet introduced. The flowers are faultless in form and of exceptionally good substance.

SCARLET AND CRIMSON

Fashion—Rose-magenta, self-colored. A distinct shade.

Gaiety—Light magenta rose striped on white. The color turns pure magenta with age.

Her Majesty—Bright rose crimson. Large size, hooded form. Very vigorous.

Miss Hunt—Standard, scarlet crimson. Wings crimson. Pink showing views of deeper crimson.

Prince Edward of York—Bright scarlet and crimson.

Queen of the Isles—White ground, distinctly striped and splashed with carmine and bright scarlet.

Red and White Striped—Large flowers of good substance.

Splendor—A large finely-shaped flower; color coppery crimson suffused with rose.

BLUE AND PURPLE

Black—Standards, deep maroon; wings deep blue, medium size; good substance, black seed.

Boreatton—Dark maroon, self-colored.

Captain of the Blues—One of the largest of the blue-flowered sorts. Standards, bright purple blue; wings a little lighter shade of blue.

Duke of Clarence—Very deep rosy claret. One of the largest flowering varieties, and the very best of the dark colors.

Indigo King—A large, fine-shaped flower, and one of the darkest, deep maroon standards and indigo-blue wings.

Monarch—Standard dark violet and purple, wings violet. A very dark variety.

Navy Blue—Very large and of fine form. An exceedingly rich deep blue.

Princess of Wales—Standard purple, wings blue, both striped on white.

Senator—Standard maroon and violet, wings violet and indigo, both striped on white.

Shahzada—Beautiful rich flowers. Standards, deep maroon; wings, indigo blue.

Stanley—A beautiful; self-colored flower of deep maroon.

Waverly—Pure purple.

Eckford's Hybrids Mixed—This mixture is made up of Eckford's large flowering sorts

Choice Mixed—A fine mixture of the best varieties, new and old.

Mammoth Package Mixed Sweet Peas—Many of the new sorts are in this mixture. The colors are rightly proportioned to give the most brilliant show possible in the garden. Pkt., 10c.

SPECIAL NOTICE—One package each of our 75 named varieties of sweet peas, amounting to \$3.75, mailed to any address, postpaid, on receipt of \$3.50. Any 50 varieties, amounting to \$2.50, postpaid, to any address.....\$2.25

Late or Winter Varieties

Pink Cupid—Plants very dwarf, and much more vigorous than White Cupid. The flowers are of the same color as those of Blanche Ferry, and somewhat larger. Pkt., 5c; oz., 10c.

White Cupid—A genuine dwarf, plant only a few inches high; bloom of good form and substance and pure white. Originated in California. Seeds white. Pkt., 5c; oz., 10c.

SWEET WILLIAM

Single Mixed—Very beautiful....Pkt., 5c
Double Mixed.....Pkt., 10c

VERBENA

White Niveni—Sweet scented....Pkt., 5c

Scarlet Defiance—Very brilliant....Pkt., 10c

Montana—Hardy variety, producing brilliant rose and lilac flowers.....Pkt., 5c

Fine Mixed—Brilliant colors....Pkt., 5c

Hybrida—Saved from one of the finest collections in the world..Pkt., 15c

WALL FLOWER

(Cheiranthus Cheri)

Finest Double Mixed.....Pkt., 10c

WHITLAVIA

(Glycine)

Mixed....Pkt., 5c

WISTARIA

(Sinensis)

Pkt., 20c.

XERONTHE-

MUM

Double White

Double Mixed—

Choice colors

Pkt.10c

ZINNIA

Mixed White

Pkt. 5c

Deep Orange

Yellow—

Pkt. 5c

Extra Double

Mixed—

Pkt. 5c



GENUINE Cyphers Company Incubators PATENTED

Hooverize! Raise chickens and eggs to reduce the high cost of living. Feed prices are coming down, but poultry and egg prices are good. Buy an Incubator and raise a flock of chickens this year.

For the season 1920 we offer our customers the Cyphers Incubator Company's complete line of Incubators. These **three styles** of high-class, guaranteed hatching machines, running through **eight different sizes**, represent all that is efficient, convenient and reliable in incubator construction. In buying a Cyphers Company Incubator you take no chances.

STANDARD CYPHERS INCUBATORS



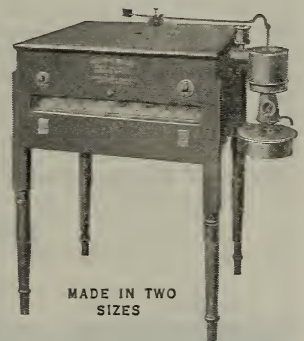
MADE IN FOUR
SIZES.

These are machines that for **fifteen years** and more have been recognized as the "Standard hatchers of the world." Tens upon tens of thousands of them have been sold and are in **successful use in every civilized country on the globe**. They are used by more Government Experiment Stations, on more large, practical poultry plants, on more successful duck and egg farms, and by a larger number of foremost poultry breeders than all other makes combined. They are the last word to date in incubator building, not a penny being spared anywhere in their construction to make sure of their doing satisfactory work in **all climates**, under **widely different conditions**, in the hands of all sorts of people. They are built to hatch and to last. With ordinary care they should last an ordinary lifetime. Every Standard Cyphers Incubator is guaranteed by the manufacturers to do first-class work in the hands of every purchaser who will give it a fair trial. Are built in four popular sizes and at prices as follows: 70 eggs, price complete, **\$25.00**; 140 eggs, price complete, **\$38.00**;

244 eggs, price complete, **\$54.00**; 390-400 eggs, price complete, **\$62.00**.

COLUMBIA HOT-AIR INCUBATORS

Are built to meet the widespread demand for large-capacity, lamp-heated, machines that can be sold at **surprisingly low prices** and yet be guaranteed to do high-class work. Have wooden cases, attractively finished in dark green, with brass trimmings and double walls. Seamless-bottom lamp bowls, best quality brass burners, sinz and steel Standard Cyphers toggle-joint thermostat and **same regulating equipment as used on highest priced machines**. Fume proof, forced draft heater, asbestos covered and metal banded. Automatic in ventilation and embodies diffusive principle. Roomy chick nursery under egg trays. Are made in two sizes: 140 eggs, price complete, **\$25.00**; 250 eggs, price complete, **\$30.00**. Fully guaranteed.



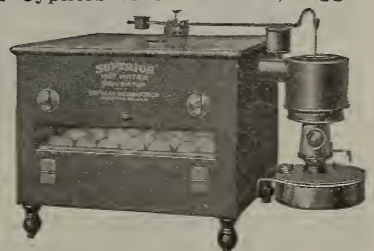
MADE IN TWO
SIZES

SUPERIOR HOT-WATER INCUBATORS

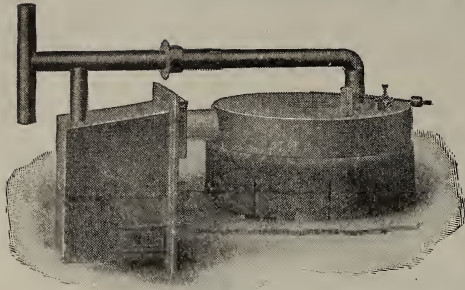
These machines are exactly what the name says. They are heated by hot-water, instead of with hot-air and are "superior" in every detail. The water boiler and tank (tubular) are of heavy-weight copper. Lamp has seamless bowl; burner is best on market. Incubator case is of wood, attractively finished in golden brown, with brass trimmings (hinges, buttons, etc.), and has double walls, with air space insulation. Are equipped with Standard Cyphers zinc and steel, toggle-joint thermostat and knife-edge regulator. Have forced water circulation and are automatic in ventilation. Roomy chick nurseries. Are built in two sizes: 65 eggs, price complete, **\$15.00**; 130 eggs (see illustration) price complete, **\$23.00**. Fully guaranteed.



MADE IN TWO
SIZES.



CYPHERS ADAPTABLE HOVER



CYPHERS ADAPTABLE HOVER

The Cyphers Adaptable Hover is self-ventilating and self-regulating. It supplies a continuous flow of **fresh, pure, warmed** air under the hover, and at the same time maintains a steady, uniform heat. All the essentials of successful brooding of chicks are automatically provided. Thousands of poultry growers use this hover in raising big, strong flocks of chicks. It is "adaptable" to use in Colony coops, in portable houses, in home-made brooder coops, such as goods boxes, piano boxes, and organ cases, as well as in large brooding houses. It is constructed entirely of non-combustible material, and bears the Fire Underwriters' Inspected Brooder label. Capacity, seventy-five newly-hatched chicks, or fifty chicks that are ten days to six weeks old.

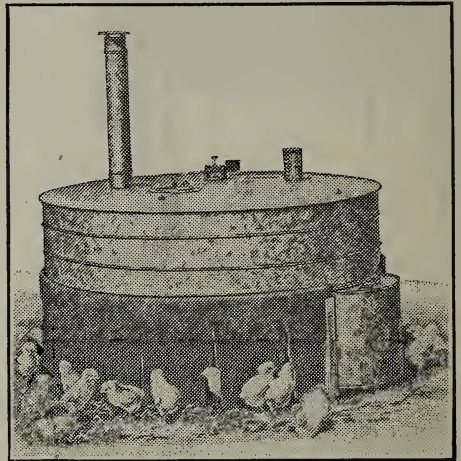
Price of Cyphers Adaptable Hover. \$18.50.

CYPHERS PORTABLE HOVER

The Cyphers Portable Hover is the only **self-regulating** and **self-ventilating**, Portable Brooding Hover thus far invented, and we guarantee it to be the best brooding device of the kind on the market. As it is equipped with the same high-grade thermostat as the Cyphers Incubators and the Cyphers Adaptable Hover, it maintains a **steady and uniform heat**. It is positively and infallibly automatic in ventilation, preventing the trapping of "dead" air or poisonous gases underneath the curtain. A continuous supply of fresh, warmed air is automatically forced beneath the hover.

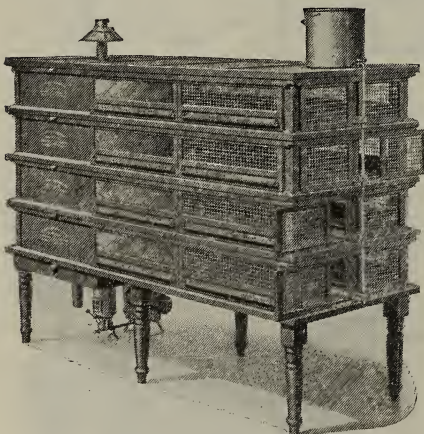
This Portable Hover, as its name indicates, can be picked up at any time, all complete, and moved about without hindering its operation. Very convenient for cleaning and moving. Rated capacity, seventy-five newly-hatched chicks, or fifty chicks that are ten days to six weeks old.

Price of Cyphers Portable Hover, \$15.00.



CYPHERS PORTABLE HOVER

THE PARADISE BROODER

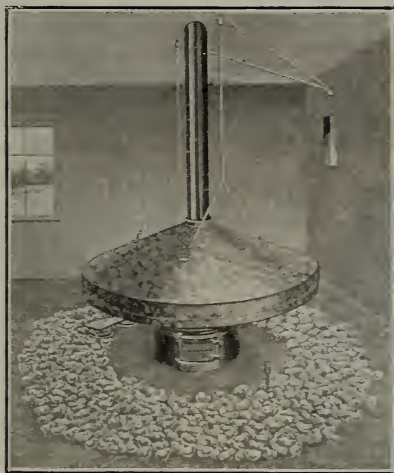


PARADISE BROODER

For Indoor Use. Sold in One, Two, Three and Four Sections

We believe the Paradise One-Lamp Sectional Brooder to be the **best indoor brooding device** invented thus far as a practical, convenient and economical nursery for newly-hatched chicks and ducklings. It embodies the correct principles of brooding chicks and ducklings by artificial means, namely: Heat, light, ventilation, room for exercise, fresh water, etc., **combined to an unequalled extent** with economy of installation, of space occupied, of fuel consumed, of labor required, of money invested, of time and attention in caring for the chicks.

Two brooders complete (four sections each), having a combined capacity of eight hundred (800) chicks, can be operated in a room 12x12 feet with every convenience. Size of each brooder (floor space) is 3x7 feet, and an eighteen or 24-inch aisle is needed at ends and sides for operator. Price—Base Section, complete (including Heater, Fresh-Air Box, Cover, Legs, Ventilating Cap and Water Can, which are sent with Base Section only), crated ready for shipment, with complete directions for use, **\$24**. Additional Sections, each **\$16**.



MARVEL COLONY BROODER

FOR EXPERT OR NOVICE

*Capacity Elastic and Unlimited. Will Successfully Brood
50 or a Large Flock of 1000 Chicks*

POULTRY INDUSTRY REVOLUTIONIZED

The Poultryman is awake, he is alive to the possibilities in brooding chicks without loss at a small operating expense. COAL BURING HOVERS introduced by us are responsible for the wonderful change in brooding methods.

The Marvel Colony Brooder is supreme, no other Hover has been tried and tested as this one.

It has proven its worth in actual work and will perform as well in Texas as in Canada. The MARVEL is a real Mechanical Hen, and has the Mother Hen beat because it will brood any quantity at one time without loss. Big healthy fast growing chicks raised to early maturity. The device is FIRE PROOF, the action is VERMIN PROOF.

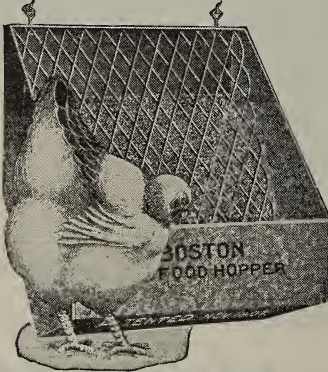
Capacity : Do not misconstrue the statement that 1500 can be taken care of at one time; it is possible for that many very young chicks for a short period. The number of chicks to be brooded successfully depends upon the character and size of the house. The 52-inch hover provides enough space in the circle to brood more than 1000 chicks very comfortably, the 40-inch hover up to 600 with ease; but we suggest for best results that the maximum be placed at 600 and 300 respectively, although our testimonials show that this quantity can be exceeded with perfect safety.

Prices: { 40-inch Hover \$18.50
 { 52-inch Hover \$23.50

STANDARD CYPHERS POULTRY SUPPLIES

Boston Dry Food Hoppers

BOSTON DRY FOOD HOPPERS—We believe this Food Hopper to be the best device of the kind on sale for the use of thrifty, up-to-date poultry raisers. It combines the favorable feature of being rat-proof with great economy of food. With this device fowls cannot waste food, yet



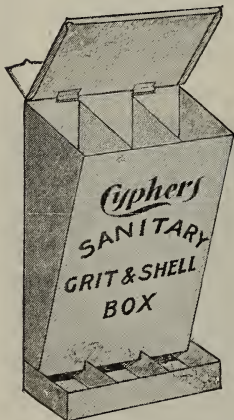
food is always accessible and always in sight. It cannot clog, is easily refilled when empty, and easy to clean and keep clean.

The construction of this food hopper is especially simple, being made of galvanized sheet iron. It is practically indestructible and will last a lifetime.

Manufactured in four sizes:

Large, for dry food, holds $\frac{1}{2}$ bu., price. **\$1.50**
 Small, for beef scrap, holds 1 peck..... **1.25**
 Long, chicken size, holds 1 peck..... **1.25**
 Short, chicken size, holds $\frac{1}{2}$ peck..... **1.50**

Cyphers Grit and Shell Box



Made of best grade of galvanized iron. Has 3 compartments for grit, oyster shell and charcoal. Corner lid on a slant prevents fowls roosting on the box and keeps contents clean. It is necessary on every well equipped poultry plant. Made in one size only.

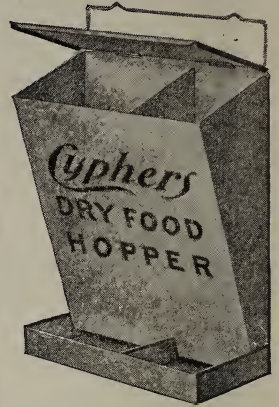
Price, each, **\$1.25**

Popular Chick Server

This Popular Chick Server is used extensively for supplying food and water to small chicks, both on range and confined in brooders, brooding houses, etc. Consists of two parts only, is easy to clean and keep clean. Made in one size only. Price, **25c each.**

THE CYPHERS SELF - FEEDING DRY HOPPER, is machine made, out of heavy galvanized iron and has two compartments, a large one for grain mixtures, holding about 6 quarts, and a small one for meat scrap, holding about 3 quarts. The trough of this hopper is high enough to prevent waste, and at the same time allows access to the food. The hopper is provided with a hinged cover, which protects the grain at all times from moisture and filth. It is also supplied with a strong handle for convenience in filling and handling.

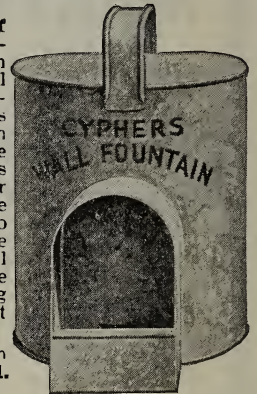
Price, each, **\$1.25.**



Cyphers Keep Clean Wall Fountain

The construction of these fountains prevents the water from getting dirty and full of litter. A galvanized iron hood keeps foreign matter from dropping into the water, yet allows fowls to drink water readily. They are very convenient to handle, and can be hung up on the wall above the floor, the back of the can being flat. They will not break by freezing.

Prices: One-gallon size, each, **\$1.00**; 2-gal. size, each **\$1.50.**



Cyphers Separable Drinking Fountains

These Drinking Fountains meet the first essential for healthy fowls—they are easy to keep clean. They are made of heavy galvanized iron, by the use of steel dies, and will last a long time with ordinary usage. These fountains are made in four sizes. The smaller size (1 quart) is designed for use in brooders, nurseries, etc. The medium size, two-quart, is for large chicks and ducklings, or for small or medium sized flocks of fowls. The $3\frac{1}{2}$ -quart size is designed for large chickens, ducklings, and adult fowls. The larger size holds two gallons, and is used extensively by breeders of ducks and large fowls.

Prices:

Small size (1-qt.) for chicks, each.....**40c**
 Medium size (2-qt.) for growing chicks
 or ducklings, each.....**60c**
 Large size. ($3\frac{1}{2}$ -qt.) for fowls, each....**75c**

POULTRY SUPPLIES—Continued

Poultry Foods

This will be a good year for raising poultry and for egg producing, and we would advise everybody who can to keep a few chickens in his or her back yard. It will be a great saving to you as well as for the nation.

We will carry in stock at all times high-grade, prepared Poultry Feeds, scientifically mixed to give best results.

Our **Chick Food**, for small chickens up to six weeks of age.

Our **Growing Mash** is a balanced ration—ground grain food for young stock from six weeks old to maturity.

Our **Developing Food** is a dry grain granulated mixture for young chicks to develop growth.

Our **Scratching Food** is a balanced ration, cracked and whole grain mixture.

Our **Laying Mash** is a mixture of sound, sweet and nutritious grains in ground form.

Notice—These foods are put up in 100-pound bags. As market fluctuates, will quote prices upon request.

Mealed Alfalfa

This is a very valuable food to the poultryman, when properly ground and prepared. This product is properly cured and ground by special machinery. The ordinary mill machinery cannot do this. Mealed Alfalfa is very beneficial for small chicks or mature fowls, when used in mash. It is a source of protein, and lime and mineral salts in soluble and digestible form. Used in mash it gives bulk to an otherwise soggy mash, thus assuring thorough digestion.

Alfalfa Leaves and Blossoms

Is guaranteed 95 per cent pure alfalfa, as compared with a purity of 70 to 75 per cent and even lower, that samples of other brands have tested. Adulterated alfalfa, containing grass and weeds, is difficult to detect, hence it pays to buy a guaranteed brand.

Alfalfa contains more protein (most valuable food element) than other forms of green food in general use for live-stock, and if alfalfa is cured properly and is pure, the poultry and egg producer can buy the necessary protein cheaper in this form than any other.

As the market varies, we do not quote prices here. Kindly write us before ordering.

LACTEIN

The Buttermilk Food for chickens and pigs.

| | |
|-----------------------|---------|
| 5-gal. kegs | \$ 4.00 |
| 10-gal. kegs | 7.50 |
| 25-gal. kegs | 17.50 |
| 50-gal. barrels | 32.00 |
| Freight extra. | |

French's Poultry Mustard

FRENCH'S POULTRY MUSTARD—Feed a small quantity (a teaspoonful for 6 hens) every morning and you will be surprised to see your flock improve in health and consequently will see better egg production.

Prices: 1½-lb. boxes for 65c; postage extra; 25-lb. pails for \$9.00; freight extra.
POULTRY PEPPER—25c per lb.

High Protein Beef Scraps

The Standard Meat Food for Poultry of All Ages

Prices, per pound.....\$0.10
100-pound sack for.....7.50

Dairy Association Co.'s.

Kow Kure, at 60c and \$1.20 per can.

Garget Cure, at 60c per package.

Horse Comfort, at 30c and 60c per package.

Bag Balm, at 60c per package.

Ovinaphthol Nest Eggs



LICE DESTROYER AND NEST EGG COMBINED.

Prices: Each, 10c; per dozen, \$1.00.

Cyphers Pure Sulphur Fumigating Candles

Prices of Candles—Complete with tin dish, each 15c; if postpaid, 25c.

Extra Parts and Supplies for Incubators and Brooders

CYPHERS INCUBATOR TRAYS

No. 0, 60c; No. 1, \$1.00; No. 2, per pair, \$1.50; No. 3, per pair, \$1.75.

INCUBATOR LAMP BURNERS

Large size, \$1.00 each by mail.

Small size, 75c each by mail.

CYPHERS INCUBATOR LAMPS

(Seamless Bottoms)

Large size with burner and wick all complete, for use on Nos. 1, 2 and 3 Incubators, \$2.35 each.

Small size, all complete, for use on No. 0 Incubator, \$1.75 each.

LAMP WICKS

For incubator lamps, 30 cents per dozen by mail.

For brooder stoves, 30 cents per dozen by mail.

Spring Lever Poultry Punch

If you keep a record of your chicks of the different breeds, hatches, strains, etc., there is no better, quicker, or easier way than by

POULTRY SUPPLIES—Continued

using the RELIABLE SPRING LEVER POULTRY PUNCH for marking the web between the toes. Hundreds of private marks can be made when your chickens are hatched, and a record kept, so that they can flock together until maturity, and then be separated by these marks.

Price, postpaid, each 50c.

Petty's Poultry Punch

Latest, most convenient Poultry Punch; can be put on a key ring or used for a watch charm. Will not clog. Thoroughly practical.

Price, postpaid, 25c.

Day Old Chick Boxes

For sending out live chicks.

25-chick size, per doz., \$3.50.

50-chick size, per doz., \$4.50.

100-chick size, per doz., \$5.50.

Anderson's Folding Egg Boxes

Made of heavy corrugated paper, folded flat, but quickly put together, holding eggs securely.

15-egg size, 35c; doz., \$3.50.

30-egg size, 50c; doz., \$5.00.

Ideal Paper Egg Boxes

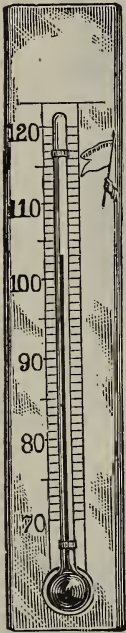
For use in delivering eggs to families. Hold 1 doz. each.

35c doz.; \$1.50 per 100.

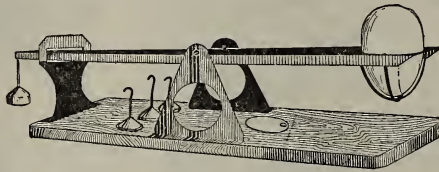
Parcel Post Egg Boxes

For mailing market eggs; fold flat when not in use; a very strong corrugated fibre box, so constructed that each egg is separated by corrugated board.

Prices: 1 doz. egg size, 65c; 2 doz. egg size, \$1.00; 5 doz. egg size, \$2.00; all per doz., postage extra.



Cyphers
Brooder
Thermometer



The Gilt Edge Egg Scale, as per cut, each.....\$2.00

High Grade Tested Thermometers

The best Incubators and brooders manufactured are worthless unless the thermometers therein are correct. Hatches fail in incubators because of inferior thermometers, and large numbers of chickens are lost in brooders, owing to defective or worthless thermometers. The operator must know accurately the temperature in the egg chamber, and be sure that the chicks in brooder have the proper amount of heat. The thermometers here listed are guaranteed by the manufacturers to be thoroughly and expertly tested before they are offered to the public.

PRICE

Incubator Thermometer, without wire..75c

Hangs from the top of egg chamber so it touches the eggs.

Certified Thermometer, like above....\$1.50

Brooder Thermometer, unmounted....\$1.00



Incubator Thermometer

CAPONIZING INSTRUMENTS

Poultry men, farmers included, can double their poultry profits by caponizing the surplus cockerels. The operation is simple, the instructions, sent free, being so full and explicit that any man or woman, after a careful reading, will be able to perform it. Caponizing is highly successful in every point of view. The demand for capons East and West regularly exceeds the supply, the price per pound averaging more than twice as much as that paid for ordinary roosters. The object of caponizing is to increase the weight of the fowl, and to render the flesh far more tender and palatable.

Caponizing Outfit, complete, in fancy case, with instructions, \$2.50, \$3.00 and \$3.50, mailed free.

CYPHERS PEDIGREE TRAYS

To be used in place of regular trays when one wants to keep separate the chicks from

certain eggs. (See Cyphers Catalogue.) Prices, for No. 0, \$2.25; No. 1, \$2.75; No. 2, \$5.50; No. 3, \$6.50.

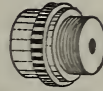
SPRAY PUMPS AND SPRAYERS

The Standard Spray Pump

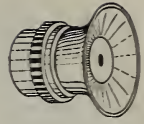
Is Provided With Three Nozzles



No. 1



No. 2



No. 3

AUTO-SPRAY PUMPS

This is a fine sprayer for the poultry raiser, always ready for use.

Eight or ten strokes of the plunger in the air-chamber will compress enough air to discharge the entire contents and make a continuous spray for fully five minutes.

The AUTO-SPRAY will do the work of five ordinary sprayers, as the operator carries the sprayer over his shoulder, and, as soon as one bush or vine is sprayed, moves on to another, whereas the ordinary sprayer has to be set on the ground, and the operator has to stop to do the pumping for each separate bush. OF TIME. For green-houses, either for giving plants a shower bath or for applying insecticides, you need an AUTO-SPRAY.

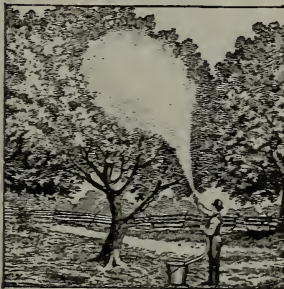
WARRANTED FOR FIVE YEARS

PRICE LIST

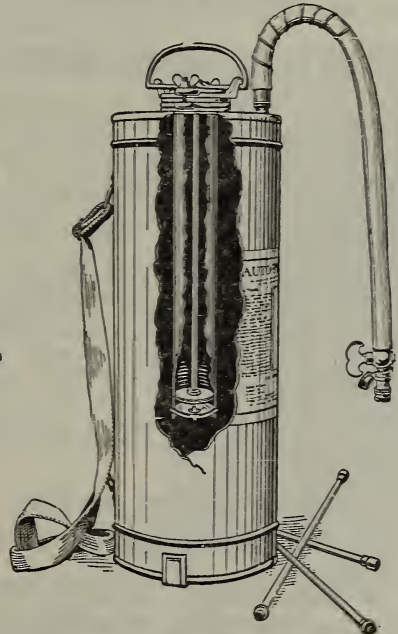
| | |
|---|--------|
| The Standard with 3½-ft. of hose and full set of nozzles, each..... | \$6.50 |
| Knapsack only, each..... | 3.50 |
| Extensions, 19 in. long, each..... | .75 |
| Extra hose, per foot..... | .15 |



The Knapsack and Extension Attached To the Standard—for Potatoes, Truck Crops



The Standard—Spraying a Large Tree From the Ground



Auto-Spray Showing Working Parts

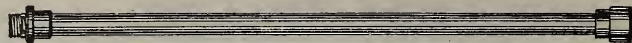
PRICE OF AUTO-SPRAY

Galvanized Steel, all working parts brass, with 2-foot, 3-ply rubber hose, stop-cock, 1 fine, 1 coarse, and 1 solid stream nozzle, and shoulder strap. \$7.50.

Brass Tank, with same parts as described above; price, \$10.00.

Size—The above sprayers are 2 feet long and 7 inches in diameter; weight, empty, 7 pounds. Capacity, about 4 gallons.

SPRAY PUMPS AND SPRAYERS—Continued



EXTENSION PIPES

For spraying tall trees, we furnish extension piping in 24-inch lengths, each fitted with brass couplings. Two or three lengths are generally used.

Galvanized, 30c; brass, 50c.

Tin-Jet Sprayer

Tin; price, 65c; small size, 50c.

For spraying vines, shrubs, plants and



Tin-Jet Sprayer

cattle (to keep off flies), and the interior of henneries, will save the price of the sprayer in a single day's use.

This sprayer embodies the principle of the ordinary atomizer, and is new only in the application of same to a new use. The advantages are at once apparent to the user. It is the most economical, not only because of its low price, but because of its great saving of material. The saving in one day's use of spray will pay the first cost of the sprayer.

One quart of liquid in this atomizer will cover more effectively a larger surface than ten quarts in the common sprayer, or sprinkler. It is a great saving in labor, because, when loaded, it weighs much less than any other, and because the spray is easily made to reach six feet from the operator.

A careful comparison of the Tin-Jet Sprayer, point by point, with other hand sprayers is all that is needed to convince a man that it is "the best hand sprayer made."

The Acquaject or Fire Anihilator

Cut No. shows the practical operation of our new and improved Portable Aquaject, the most perfect and effective hand apparatus ever invented for throwing water. All working parts liable to rust or corrosion are made of brass. For washing windows and carriages and showering gardens or conservatories it has no equal. It is adaptable for throwing liquid solutions of all kinds to destroy noxious insects and bugs of every nature on plant, vine or tree, and should be kept in every house, store or factory in the country for fire protection. In fact, in a diminished degree it is capable of every use of an ordinary force pump, and far more convenient. It is always ready for use, and not liable to get out of order. Will throw water at the rate of eight to ten

gallons per minute to a height of fifty feet or more.

With each pump is sent suction and discharge hose connected, so that it requires no labor to put in immediate operation. Longer lengths of hose can be furnished, if desired.

Price of No. 267, with three feet suction and three feet discharge hose, brass discharge pipe, and rose sprinkler, \$7.50.



No. 207 Aquaject

The EMPIRE KING

Has an automatic mechanical agitator, an automatic brush for keeping strainer clean, seamless brass cylinder $2\frac{1}{2}$ inches inside diameter, 8 inches long, with solid brass plunger and rod, brass valves without leather or rubber and brass screw spout with stopcock. The agitator works in connection with cogs from the lever, connecting with a companion gear at the upper end of the steel shaft; at the lower end of the shaft is a horizontal wooden bar, to which are attached two upright paddles. Thus, when the lever is moved upward or downward, these paddles travel in a semicircle in bottom of cask, and PREVENT THE POISON FROM SETTLING.

The pump has a fine brass strainer at the bottom of suction pipe. It also has a BRUSH on the agitator arm, which swings under the suction strainer and keeps it clean, hence no clogging of pump or nozzles.

This pump has a long lever, works easily, and is GUARANTEED IN EVERY RESPECT.

The air-chamber is large, which insures an even flow, and the STOP-COCK on the spout is a valuable feature of this pump. Weight, not including barrel, 55 pounds.

SPRAY PUMPS AND SPRAYERS—Continued

PRICES

Empire King Pump, with double or single brass spout for one or two leads hose, shut-off cock, suction pipe, brass strainer, no hose, no nozzle, no barrel, \$28.00.

To the above price add price of the spray nozzle or nozzles and amount of spray hose wanted, also extension pipe, if wanted. See prices on following pages. This is the most satisfactory way, as few people want exactly the same outfit.

We put coupling on the hose free of charge and see that everything is right before it goes out.

We supply barrels and mount the pumps for \$4.50 extra.

THE JUNIOR EMPIRE

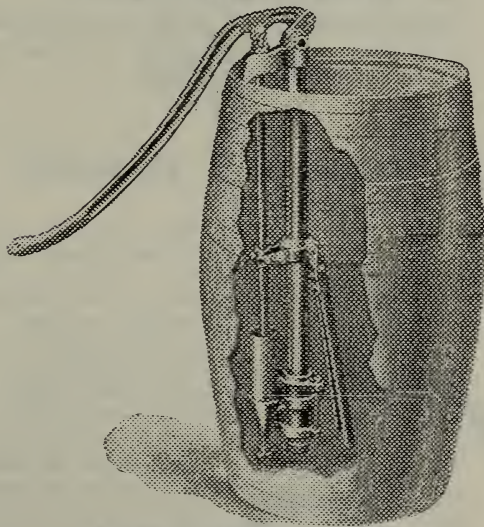
With automatic mechanical agitator. This pump has a seamless brass cylinder, two inches inside diameter and eight inches long, brass plunger with leather bucket, brass lower valves, and brass rod; also a brass screw spout, to which hose is attached by a screw coupling. It has a large air-chamber, by means of which the spray is strong and continuous.

The agitator, brass strainer, suction pipe, and brush on agitator arm are same as shown in the Empire King. This pump works easily, and is guaranteed in every respect. Weight complete, as above, 45 lbs.

Price of Fig. 62, as shown on this page, no hose, no nozzle, no barrel, \$20.00.

For spray hose, nozzles, etc., see prices on following pages.

Bean "Pippin" No. 50



BEAN "PIPPIN" NO. 50

Meets the demand for a low-priced, high-class sprayer for small orchards, vineyards or whitewashing jobs.

Though the air chamber is smaller, 2 inches in diameter, the valves and agitator are the same as in the No. 60 pump, while the cylinder is of 2-inch brass tubing.

It has an anchor in the bottom of the barrel on which the point of the cylinder rests, which holds it rigidly in position. It is made to fasten in a barrel without a head, so is extremely easy to mount.

Price—Outfit 270, Pippin No. 50 Pump, with agitator complete, anchor, hose, nipple and bolts ready to fasten to barrel, \$18.50.



Empire King, No. 63.

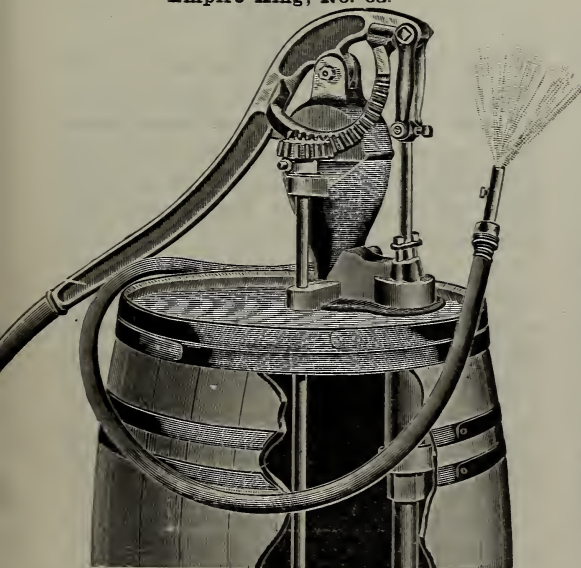
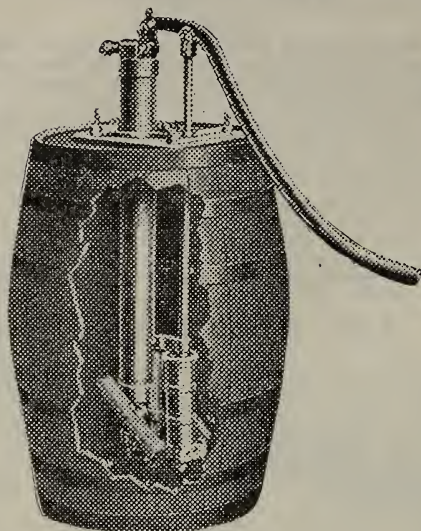


Fig. 62

JUNIOR EMPIRE

SPRAY PUMPS AND SPRAYERS—Continued



Bean Spray and Whitewash Pump No. 60

It has porcelain-lined cylinder, $2\frac{1}{4}$ -inch diameter. It has no stuffing box or glands. It has a simple and effective agitator. It has two simple packing valves.

Price—Outfit 190, No. 60 Pump with agitator complete, with bolts ready to fasten to barrel, and hose nipple, \$23.50.

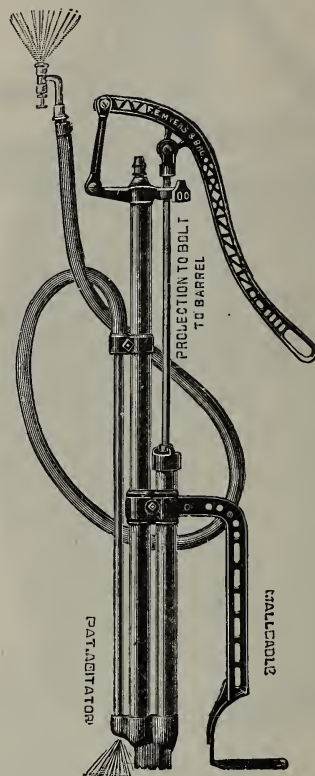


Fig 324

Hydropult

Made entirely of brass, with brass ball valves. Can be conveniently transported from place to place, as it is very light, but at the same time a powerful and most effective force pump.

This is a most convenient pump for use in gardens, conservatories, and in other places where it is necessary to spray small shrubs, vines, etc.

No. 663.

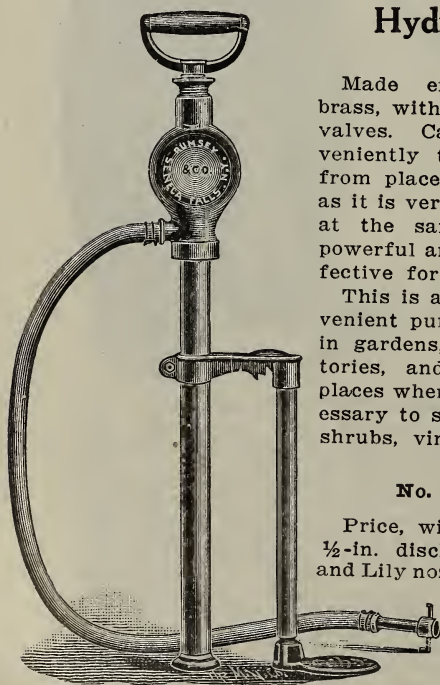
Price, with 3 ft. of $\frac{1}{2}$ -in. discharge hose and Lily nozzle, \$7.25.

This pump has all the advantages of the ordinary barrel pump and bucket pump combined, and is sold at a moderate price. Has one-half more air-chamber than any other make of bucket pump. Is made of brass, with ball valves; handle and foot rest are malleable iron.

The work is all done on the down stroke of the handle, and it can be operated with one-third the power required for any other old-style bucket spray pump.

When used as a barrel pump, detach the foot rest and attach pump to top of barrel.

Price of No. 324, with agitator, complete with hose and Vermorel fine, coarse, or solid stream nozzle, \$7.50.



CATALOGUE AND PRICE LIST

D. B. SMITH & CO.'S SPRAY PUMPS

49

DETACHABLE PUMP MADE OF BRASS WITH BRASS BALL VALVES. REQUIRES NO PRIMING. EASILY OPERATED. THROWS LARGE CONTINUOUS SPRAY. AGITATOR IS FURNISHED.

8 FT. HEAVY HOSE, DETACHABLE FOR CLEANING

VERMOREL BRASS NOZZLE. NON-CLOGGABLE

FRAME IS ELECTRIC WELDED. LIGHT BUT STRONG AND DURABLE

12 GALLON HEAVY GALVANIZED TANK. QUICKLY DETACHED FROM FRAME. PROVIDED WITH COVER.

3 IRON EXTENSION PIPES FOR ELEVATING SPRAY. ONE OR MORE LENGTHS MAY BE USED

LARGE WIDE RIM WHEEL—MAKES OUTFIT WHEEL EASY

No. 60, Price, \$22 50.

SMITH'S NO. 28 WHITEWASH SPRAYER AND FORCE PUMP



Will Fit Any Pail or Bucket. Made of Brass or Galvanized Iron. (Pat. June 24, 1902.)

The No. 28 Whitewash Sprayer and Force Pump, is constructed of heavy galvanized iron, and is nicely painted. Furnished with brass tops and bottoms, three feet of good hose, with one-foot brass extension and a brass nozzle which will give two different sizes of spray. Also has ball valves and a steel foot rest. This pump is double action and is made with large air chamber, enabling the operator to keep a constant pressure on the nozzle with little exertion. This is the only pump made that will properly spray whitewash without clogging. It will do better work than can be done with a brush, as the force with which the material is applied causes it to penetrate the small crevices, thus making a complete and perfect job.

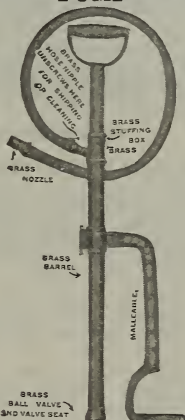
The pump is used for a bucket spray and force pump, for spraying trees, shrubbery, garden use, vegetables, washing wagons, windows, etc., as well as for whitewashing. It will throw a continuous stream 35 feet high.

No. 28 Pump is provided with our patent spring leather expander, which keeps the

plunger leather open and in shape and prevents it from drying up.

Retail price each, complete, \$3.00.

SMITH'S NO. 29 ALL-BRASS SPRAY PUMP



Will Fit Any Pail or Bucket

No. 29 Spray Pump is made entirely of brass, with the exception of the handle and stirrup, which are made of malleable iron. Has brass valves and valve seat, brass plunger, which are not affected by the poisonous arsenics used in the different spraying formulas. Furnished with 3 feet of heavy, best quality rubber hose, detachable for cleaning, with brass hose clamps. Two interchangeable brass nozzles are furnished, giving a fine, mist-like spray, such as is required for spraying shrubbery, trees, vegetables, also a coarse spray or stream. This pump is provided with large double air chamber, enabling the operator to keep a constant pressure on the nozzle of from 0 to 100 pounds with very little exertion. Rapid pumping is not necessary. Used largely for spraying trees, shrubbery, vegetables, as well as for whitewashing, spraying disinfectants, washing wagons, windows, etc.

Packed one in box. Price, each, \$4.50.
Bordeaux Nozzle, Fig. 136, each, \$1.00.
Manufactured by D. B. Smith & Co., Utica, N. Y., U. S. A.

SPRAY NOZZLES, CONNECTIONS, ETC.

All fruit growers contend that the nozzle is the most important part of the spraying outfit. It must be arranged to throw a mist, and not drops. By putting on too much material you damage the foliage.

The best results are obtained by covering the entire surface, and with just as little in one place as possible.

IMPROVED VERMOREL NOZZLE WITH DEGORGER

No. 35 is arranged with a stuffing box, so that the liquid will not wet the operator while being used; fitted for $\frac{1}{2}$ -inch male end of $1\frac{1}{4}$ -inch pipe. Each nozzle is furnished with two caps, with different sized openings for coarse or fine spray.

The above fitted for $\frac{3}{4}$ -inch hose. Price each, \$1.25.

BORDEAUX SPRAY NOZZLE

Use This Nozzle for Whitewashing.

No. 36 will throw a fine, fan-shaped spray and will readily free itself, should it become clogged, by turning the cock handle. It will throw a solid stream, or may be shut off all together, as desired. It is especially recommended for use in connection with the Bordeaux mixture. Price each, \$1.00.

SPRINKLING NOZZLES

Gem Nozzle, adjustable, 60 cents each.

Crescent Nozzle, adjustable, 50 cents each.

Plain Nozzle, 50 cents each.

BAMBOO EXTENSION

10-foot, complete, with globe valve....\$3.00

8-foot, complete, with globe valve....\$2.75

Plain 8-foot Extension Pipe. Price, \$1.00.

HOSE REDUCER

No. 43 represents a hose reducer, used to reduce hose to $\frac{1}{4}$ -inch pipe. It is used to connect an ordinary hose coupling to pipe extension.

Price each, 25c.

Do not wait until the pump is needed before sending in your order. Order early. It is the early spray that kills the worm and prevents fungus.

DEWEY NOZZLE

This nozzle throws a fine rotary spray, has two caps, one of which has a larger opening for orchard spraying. This is a very economical nozzle, in the use of liquids. Special attention is invited to the form of construction, it having no projection to catch on the limbs.

Price, $\frac{1}{4}$ -inch, \$1.00.

THE NIAGARA SPRAY NOZZLE

Produces a fan-shaped spray, either fine or coarse, or throws a solid, round stream. It is also provided with a shut-off cock.

Notice the improved shape of the handles; nothing to catch on the limbs.

Price, \$1.00.

SPRAYS AND SPRAY MATERIALS

Remember—"No Worms When You Spray."

LIME-SULPHUR SPRAY

Our Standard (brand). A pure, highly concentrate solution, free from sediment. It is the best of all winter sprays, and is meeting with approval as a summer spray to control apple and pear scab.

"Our Standard" is used by the most successful fruit growers throughout the Northwest. Test and measure guaranteed to be marked on every barrel.

It is all ready to mix just as you get it; merely add 11 gallons of water to each gallon of spray. Price: 1 gal., 75c; 5 gals., \$2.50; 50-gal. barrels, \$16.00.

Dry Lime and Sulphur—1 lb., 35c; 10 lbs., \$2.25; 25 lbs., \$4.50.

Bordeaux Mixture

We now have this invaluable remedy prepared in dry form. Directions are attached to each can. It is BETTER and CHEAPER than the ordinary home-made mixture. 1 lb., 35c; 5 lbs., \$1.50.

Sulphate of Copper (bluestem), lb., 25c; 2 lbs., 45c.

Paris Green, $\frac{1}{2}$ lb., 40c; lb., 75c.

Sulphur, powdered, 10 lbs., 80c.; bags 110 lbs., \$4.25.

Whale Oil Soap, lb., 15c; 25 to 50 lbs., $12\frac{1}{2}$ c lb.; 100 lbs., \$11.00.

Quassia Chips, 1 lb., 25c; 10 lbs. or more, 20c lb.

Hellebore. $\frac{1}{4}$ bl. pkg., 20c; $\frac{1}{2}$ lb., 35c; lb., 65c.

Tobacco Dust, lb., 15c; 10 lbs., \$1.00.

Tobacco Soap, post-paid, 25c cake.

Fir Tree Oil Soap, $\frac{1}{2}$ -lb. can, 25c; by mail, 35c.

HAMMOND'S SLUG-SHOT

A well-known remedy for all kinds of insect pests on vegetables, fruits and flowers. Non-poisonous, 1 lb., 25c; 5 lb. pkg., \$1.00.

Dry Arsenate of Lead—The best and latest insecticide. It will not burn the foliage and stays on the trees longer than any other spray made. Mixes quickly.

Prices: $\frac{1}{2}$ lb., 40c; 1 lb., 75c; 5 lbs., \$3.00; 10 lbs., \$5.50; 25 lbs., \$13.50.

TREE TANGLEFOOT

For caterpillars, moths and all climbing insects and worms. One pound makes a band 9 feet long.

Prices: $\frac{1}{2}$ lb., 35c; 1 lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.00; 25 lbs., \$12.50.

NICO-FUME TOBACCO PAPER

24 sheets, \$1.35 per can.

144 sheets, \$5.50 per can.

288 sheets, \$10.00 per can.

NICO-FUME LIQUID

$\frac{1}{4}$ lb., 65c; 1 lb., \$2.00; 4 lbs., \$7.50; 8 lbs., \$14.50.

HAMMOND'S GRAPE DUST

The best known remedy for mildew on roses, grapes, and gooseberries. Apply with "Woodason" powder bellows.

1 lb., 25c; 5 lb. pkg., \$1.00.

BLACK LEAF "40"

Latest and best tobacco spray. 1 pound makes 170 gallons.

1 oz., 25c; $\frac{1}{2}$ lb., \$1.00; 2 lbs., \$3.25; 10 lbs., \$13.75.

SPRAYS AND SPRAY MATERIALS—Continued

GARCO VEGETABLE SPRAY

A Successful Remedy for Cabbage
Maggot

For destroying and preventing maggots, grubs and worms that infest turnips, radishes, beets, rutabagas, cabbage and cauliflower, etc., also recommended for combating crown borers in strawberries.

Pints, 50c; qts., 75c; $\frac{1}{2}$ gal. \$1.25; gal. \$2.00.

AVENARIUS CARBOLINEUM

The famous German wood preserver and insecticide. Paint or spray your chicken houses, hog pens, stables, sheds, etc., with Avenarius Carbolineum, to permanently destroy all poultry and other vermin and preserve your buildings from rot and decay.

Qt. can, 60c; gal., \$1.75; 5-gal. cans, \$7.00

ZENOLEUM

Non-poisonous disinfectant, lice killer, animal dip and antiseptic insecticide. "A boon to the Poultryman."

Eight-ounce can, 35c; quart, 75c; half gallon, \$1.25; gallon, \$2.00.

CARBOLA

THE ORIGINAL

Any other is an imitation.

A white paint in powder form combined with a disinfectant many times stronger than pure carbolic acid. It is ready to use as soon as mixed with water—no straining or waiting, less than five minutes needed. Can be applied to wood, brick, stone or cement surfaces, or over whitewash with a brush or a spray pump. It will not clog your sprayer. It dries a clear snow white, and one gallon—less than 10 cents' worth of powder—paints and disinfects 200 square feet at one operation. It will not blister, flake or peel off, has no disagreeable odor to taint milk; and does not spoil by standing.

Carbola is not poisonous—will not harm the smallest chick or stock that licks a

painted surface—but it will kill lice, mites, fly eggs, etc., and is unexcelled as a lice powder. It is a preventive of contagious diseases that affect poultry and live stock—roup, white diarrhea, canker, cholera, glanders, contagious abortion, etc.—which, if once started, spread rapidly and may cost you a season's profits or even all the capital you have invested in live stock.

Used instead of whitewash and disinfectants.

Trial Package, postage paid.....\$0.35

10 lb. package 1.35

50 lb. bag 6.00

Freight or postage extra.

FRESH FIR OIL

CREST SPRAY

Pint, 50c; quart, 75c; $\frac{1}{2}$ gal., \$1.25; gal., \$2.00.

CREST TOBACCO-CRESOL

$\frac{1}{2}$ pint, 25c; pint, 35c; quart, 50c.

CREST ROSE SPRAY

Pint, 35c.

TUBER-TONIC

1-lb. can, 60c; 5-lb. can, \$2.50.

GOPHERGO

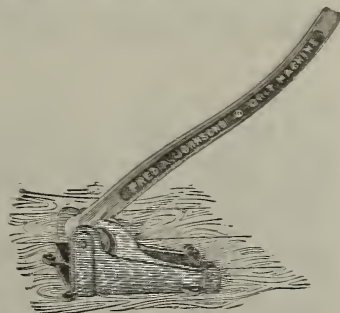
(Machine Poisoned Raisins and Grain)



Machine poisoned Raisins and Grain. Sure death to gophers, squirrels, prairie dogs, pocket gophers, rats and mice, and all rodents. Price, 35c, 75c and \$1.25 per can.

JOHNSON'S GRIT MACHINES

The best Grit Crusher manufactured. A machine that will crush enough in a few minutes to last a hundred head of fowls a month. It is so simple that any child can use it. It works with a lever power and takes very little work to run it. You can crush granite, oyster and clam shells and crockery. After you have purchased one you will wonder how you did without it so long. The sight of the machine sells it. One customer invariably brings another. Price, \$4.00.



LEG BANDS FOR POULTRY

The Smith Sealed Leg Bands

The modern method of marking poultry is to use a band that, "when once on, is always on," as one customer puts it. These bands, though only introduced last season, are attracting more attention than anything in the line of markers yet offered the poultry fraternity.

PRICES BY MAIL OR EXPRESS PRE-PAID.

12 for 25c; 25 for 40c; 60 for 85c; 100 for \$1.25.

Leader

Latest and best adjustable leg band out. Has neat, compact, and smooth fastening, with no catching points; easily attached and is absolutely secure.

Prices, postpaid, 12 for 20c; 25 for 30c; 50 for 50c; 100 for 75c.

Celluloid Spiral Leg Band

In red, green, yellow and white.

Prices: Chicks and pigeon, 12 for 15c; 100 for 60c. Chicken size No. B C D., 12 for 20c; 100 for 75c.

IDEAL POULTRY NETTING

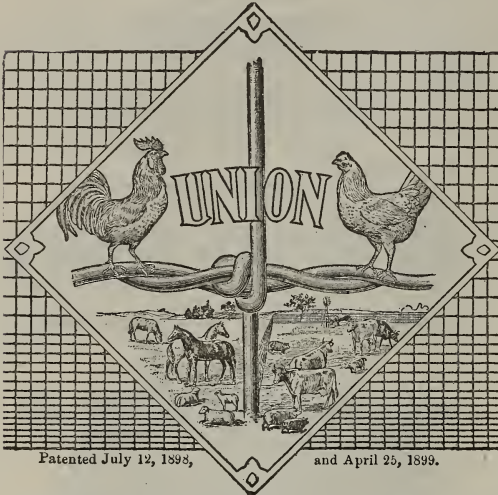
A new netting and far superior to the old Hexagon. The cables all run in straight lines horizontally, therefore fence does not sag or pull out of shape. It requires fewer posts and no top or bottom rail is required.

Put up in 10 rods—165 lineal feet—to the roll.

Prices—

| | | |
|-------------------------------|--------|----------|
| 24 in. wide..... | \$4.00 | per roll |
| 36 in. wide..... | 5.00 | per roll |
| 48 in. wide..... | 6.00 | per roll |
| 60 in. wide..... | 7.50 | per roll |
| 72 in. wide..... | 8.50 | per roll |
| All in 2-inch mesh. | | |
| 1-inch mesh, 24 in. wide..... | \$6.50 | per roll |

UNION LOCK POULTRY FENCE



The horizontal lines of this fence are composed of two No. 20 galvanized steel wires twisted together. Beginning at the bottom the first seven cables are $1\frac{1}{4}$ inches apart, the next three cables are $1\frac{1}{2}$ inches apart, then six cables 2 inches apart and all above that 4 inches apart. This gives a mesh of $1\frac{1}{4} \times 3$ inches at the bottom, where it is needed for small chicks; and above 2

feet, where fowls can only reach when on the wing, the mesh is 3×4 inches. The pickets are No. 19 galvanized steel wires, and are 3 inches apart. The picket is fastened to the cables with the Union Lock, the same as we use in our Field and Hog Fencing, which has given such excellent satisfaction.

On account of the picket being at right angles to the cables, the fence will fit any unevenness of the ground without cutting, which is an advantage not possessed by any diamond mesh netting or diagonal mesh fencing.

As all cables are the same length and run the whole length of the fabric, every part can be stretched perfectly. The fence is amply strong, as the breaking strain of a No. 20 two-wire cable is 192 pounds, and there are ten cables in the first foot of fence.

In strength, closeness of mesh, adjustability and economy, it excels all others.

Per Bale. Weight.

| | | |
|---------------------|--------|-----------|
| 24 inches wide..... | \$4.00 | 26 pounds |
| 36 inches wide..... | 4.50 | 32 pounds |
| 48 inches wide..... | 5.50 | 41 pounds |
| 60 inches wide..... | 6.50 | 48 pounds |
| 72 inches wide..... | 7.50 | 54 pounds |

In bales of 10 rods—165 lineal feet.

SPECIAL PRICES IN LARGE QUANTITIES.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

FERTILIZERS

Do You Use Any?

If not, you should. Do not say it costs too much. If you use them intelligently **YOU CANNOT AFFORD TO DO WITHOUT THEM.** They will **INCREASE YOUR CROPS ENORMOUSLY**, and your vegetables will mature quicker.

The best results from the use of commercial fertilizers will be derived by those who apply them in the fall or early spring. It is very desirable that they be well mixed with the soil, otherwise they can not be reached by the roots. No positive rule as to quantity can be given. The average amount is 400 or 500 pounds per acre, but market gardeners often use three or four times that amount and find that it pays.

VEGETABLE FERTILIZER

This compound is prepared specially for potatoes, vegetables and garden truck, and is unsurpassed for bringing these crops to early maturity. 100-lb. sack, \$4.00.

COMPLETE FERTILIZER

An all-around fertilizer for ordinary farm and garden products. 100 lbs., \$3.50; ton, \$65.00.

FRUIT FERTILIZER

This excellent fertilizer is made expressly for fruits. Its use for fruit trees, vines and shrubs of all kinds will be followed by a great improvement in the quality and increase in quantity. 100-lb. sack, \$4.00; ton, \$75.00.

LAWN FERTILIZER

Pulverizer Sheep Manure

For grass lands, lawns and flowers. This article has been specially prepared to meet the requirements of grass lands, and has been used on a great many lawns in and about this city, with highly satisfactory results. Do not use barnyard manure on a lawn, for it will fill it full of weeds. This fertilizer will feed the roots better and bring in no weeds. 50-lb. sack, \$1.25; 125-lb. sack, \$2.50.

SUPER-PHOSPHATE

This is a first-class article of pure bone phosphate, and acts in a remarkably short time, 100 lbs., \$2.50.

FERTILIZERS—Continued**PURE BONE MEAL**

We supply pure bone meal, finely ground, for use on crops of all kinds. Animal bone is a most valuable enricher of the soil, and a crop producer, and is sure to pay well when used. 100 lbs., **\$4.00**; ton, **\$70.00**.

WHALE BONE MEAL

Manufactured in Alaska and contains about 3 per cent nitrogen and 28 per cent phosphoric acid.

Price per 100 lbs., **\$4.00**; by the ton, **\$70**.

WHALE MEAT AND BONE FERTILIZER

Commonly called Fish Guano, manufactured at the whaling station in Alaska. The best fertilizer in the market. Contains about 8 per cent nitrogen and 16 per cent phosphoric acid.

Price per 100 lbs., **\$4.50**; by the ton, **\$80**.

TANKAGE, OR BLOOD AND BONE MEAL

An all around fertilizer for garden and field. Contains about 4 per cent nitrogen and 16 per cent phosphoric acid.

Price per 100 lbs., **\$3.50**; by the ton, **\$65**.

Land Plaster, 80-lb. sack, \$1.25; ton, market price.

Nitrate of Soda, lb., 10c; 100 lbs., **\$5.00**.

Muriate of Potash, 1 lb., 25c.

Sulphate of Potash, 1 lb., 25c.

For larger quantities of any of these fertilizers, write for special quotations.

GROMORE FERTILIZER

In GROMORE Fertilizer we eliminate the ODOR and BULK and give you a ferti-

lizer we can recommend after having thoroughly tried out same for the past year.

**The Best Money Can Buy
The Best Earth Can Produce
All Fertilizer—No Filler**

Full Information in Free Book, Gromore Fertilizer

Sold in 25-lb. white cotton bags....\$ 2.50
125-lb. gunnies 10.00
2-lb. packages40

Remember, in figuring price, that GROMORE is four times the strength of any ordinary fertilizer. It also lasts into the third year in your garden or orchard, making it the most economical fertilizer on the market. Remember, GROMORE Fertilizer does not leach (wash) out, or evaporate. Will keep indefinitely should you have any left over from package or bag.

Some Things Gromore Will Do

A 25-pound bag distributed over a space of 30x40 or 1,200 square feet of your lawn, by sowing same as you would grass on your old or new lawn, and wet down after applying, will keep your lawn in condition without further application. Removing those yellow and dead spots as well as removing that objectionable moss in your lawn. A tablespoonful to a hill of potatoes, tomatoes or an ordinary rose bush will assure you better and more even sized potatoes. You get quality and quantity and earliness in vegetables. Flowers, house plants and ferns thrive and respond in giving profusion in color and size.

Explicit instructions how to do things with house plants, garden and flowers and so forth, and how to use GROMORE is minutely described in our book called GROMORE FERTILIZER. Samples and book on application free.

It is Dependable, Soluble, Sure, Clean, Lasting, Economical, Efficient and Guaranteed.

NOTICE

To raise big crops you must have good land, well tilled and fertilized, and above all your Seed must be good. We have made a study of the different sorts especially adapted for this section of the country, and by getting your supply from us you cannot go wrong.

We have been in the seed business for twenty-six years.

FERTILIZERS—Continued

MANN'S GREEN BONE CUTTERS

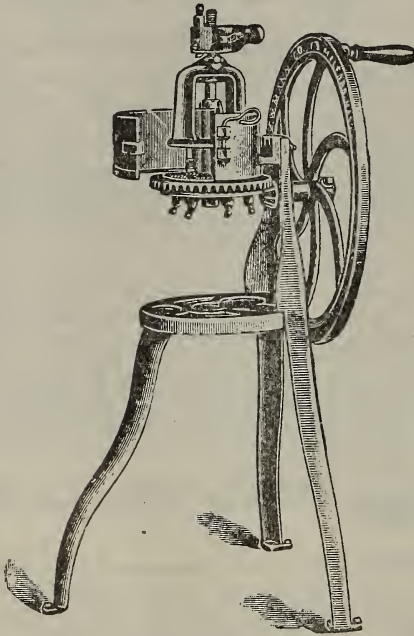
MANN'S NO. 5.

Has four knives, large cylinder, and has the latest patent, automatic governing spring feed, which makes it one of the best, low-priced bone cutters ever offered. Can furnish with crank, balance wheel, or mounted on iron stand.

MANN'S NO. 7½

Adapted to run either by hand or by power, without any change.

The particular advantage of the No. 7½ is that while it is a complete power machine, it can be operated by hand just as easily as the No. 7. Thus, it is always ready for use. It is recommended even if you have no power at present, for should you get power in the near future, you need be at no further expense. There is a large class that need a power bone cutter, who cannot really afford to pay the price of the No. 11 or No. 12. The No. 7½ will appeal directly to this class. It has all the improvements. It meets a long-felt want.

**MANN'S NO. 7**

The New No. 7 is mounted on strong iron stand, and has patent automatic governing spring feed. Large open-hinged cylinder, giving instant access to all working parts, has six knives, gear guard, anti-clog device, heavy balance wheel and other improvements.

MANN'S NO. 9.

The description of No. 7 will apply to the New No. 9. The difference consists of larger cylinder, greater holding capacity, different design and larger table.

MANN'S NO. 11—HAND OR POWER

Intended for large flocks when the machine must be run by hand a portion of the time. It is really a semi-power and semi-hand or combination machine, and as such has its place. The No. 11 is exactly the same as No. 9 with the power parts added. It has all the late improvements, special feed, anti-clog, open cylinder, tight and loose pulleys, etc. Capacity, 100 lbs. per hour.

PRICE LIST OF MANN BONE CUTTERS

| New Style— | | Weight. | Price |
|------------|------------------------|---------|----------|
| No. 5 | C (with crank handle) | 30 | \$ 12.50 |
| No. 5 | B (with balance wheel) | 55 | 18.00 |
| No. 7 | (B. W. and iron stand) | 107 | 26.00 |
| No. 7½ | (hand or power) | 150 | 35.00 |
| No. 9 | (B. W. and iron stand) | 163 | 40.00 |
| No. 11 | (power machine) | 215 | 55.00 |
| No. 12 | (power machine) | 260 | 67.50 |
| No. 15 | (power machine) | 420 | 132.50 |

MANN'S CLOVER CUTTER

The importance of the simplicity of this cutter would be appreciated by the reader if he could compare it with the complicated machines heretofore offered to poultry men. The old style cutters were not only complicated, but costly. The knives are made of the finest steel, securely fastened to a plate that can be set with positive accuracy.

PRICES

Without stand, for use on bench or table\$18.00
With iron stand, all complete.....\$21.00



"Good to the last drop"

BLATCHFORD CALF MEAL**The Complete Milk-Equal**

Just the thing to raise your calves right from birth. Then sell your milk and get the benefit of the high creamery prices.

No more scouring calves. It is absolutely the only milk substitute that contains all the elements necessary for rapid and healthy growth, and the only calf meal that is thoroughly cooked and prepared for digestion. Will push calves forward better and quicker than any other food.

100 pounds makes 100 gallons of Complete Milk-Substitute.

25 lbs., \$1.75; 50 lbs., \$3.60; 100 lbs., \$6.50.

**Blatchford's will save your baby Milk Mash chicks**

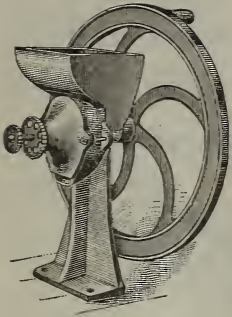
No more bowel trouble, leg weakness or white diarrhea

Equal to milk
Grows, matures or fattens

4-lb. package, 50c.

10-lb. package, 85c.

2½ lbs. at 8 weeks



No. 32 Stover Hand Grinding Mill

In this mill are embodied all the good features of other hand grinding mills to which have been added universal burrs or grinding plates

that are adjustable for grinding coarse or fine. This machine grinds oats, barley, rye, corn, peas, dry bone, shells, etc., for feeding to poultry. It is a well designed machine, is strong and well made throughout and of excellent finish; has a 16-inch fly wheel and is light running.

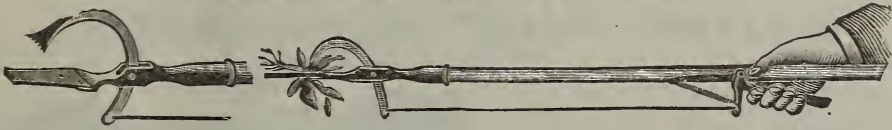
The capacity of this mill is not equalled by any other of the same kind.

Shipping weight, 40 pounds.

Price, \$6.00.

Capacity, 1 or 2 bushels per hour.

CLEVELAND LAWN WEEDER



Keeps your lawn free from weeds; do not be without one, as the price is only 60c. Other styles at 50c and \$1.00 each.

China Nest Eggs

35 cents dozen; by mail, 50 cents.

Insect Powder Blowers

For use in applying insect powder of any kind on fowls, old or young. Will work a saving of 25 per cent in the insect powder used. There is no need to waste any powder, if you use this bellows. It is the handiest thing out, well made, and lasting.

Price. 30 cents each, by mail, postpaid.

Tobacco Dust

For use in dust baths and nests. A cheap and effective exterminator of lice. Per lb., 10c; 3 lbs., 25c.

Wire Nests—Each25c
Anti-Lice Roost-Hangers—Each.....15c

LAWN MOWERS

Ball-Bearing, 14-inch\$7.50
Ball-Bearing, 16-inch 8.50
Others at\$3.50, \$4.50 and \$5.00

CONKEY'S FLY KNOCKER

Guaranteed

Fly Knocker instantly drives away flies, mosquitoes and insects from any animal sprayed with the magic liquid.

Cows feed quietly all day, and give one-third more milk.

Stock cattle will fatten better, and larger profits are realized.

Horses will work easier and rest quieter, being absolutely free from annoyance, for no insects will go near where Fly Knocker is used.

Will also prevent the gadfly from striking sheep and causing "grub in the head."

To protect animals from flies and mosquitoes, apply once or twice a day lightly over the animal with a sprayer, giving special attention to the legs, head and sides. It is better to give a light application frequently than a heavier coating at long intervals.

The feed saved will more than pay the cost of the remedy, and you do not have to wait until after dark to milk your cows.

By the use of Fly Knocker your cows will give one-third more milk; your horse will rest during rest time and work during working hours on two-thirds the feed it now requires, and will be free from vermin of all kinds.



Guaranteed to do the work or money refunded.

Which cow would you rather milk?

NO USE MILKING COWS AFTER DARK

Prices

Quart cans\$.75
Half-gallon cans 1.25
One-gallon cans 2.00
Five-gallon cans 9.50

It costs about ½c per day per animal to use.

To apply Fly Knocker economically, use our Tin Jet Sprayer. (See page 47.).

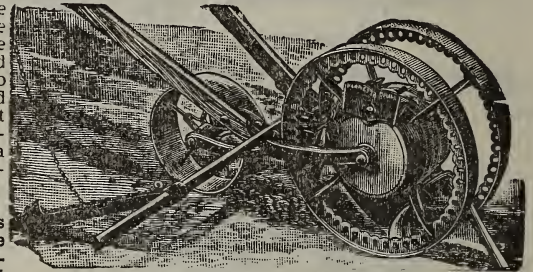
At the present time labor is very scarce and wages are high. You can greatly reduce your cost of production by using the well-known labor-saving **Planet, Jr., Garden and Field Cultivators, Plows and Rakes.**

Below you will find the most popular models listed:

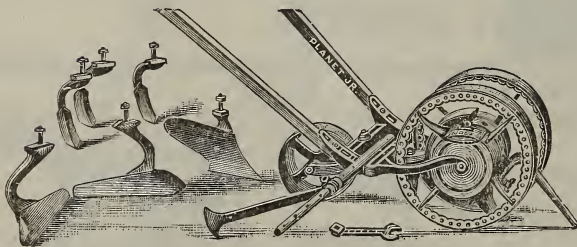
FAR-FAMED "PLANET JR." GARDEN TOOLS

These are the most popular and complete garden tools made. They are known the world over, and beyond question are the most perfect in design, construction and finish, and most practical yet invented. No wide-awake farmer or gardener can afford to be without them. Space will not permit illustrating and describing all of the "Planet, Jr.," tools, but we will gladly send a fully-illustrated catalogue to any who desire it.

DO NOT class the "Planet, Jr.," goods with the many lines of garden tools on the market at a lower price, as there is no comparison when it comes to material and workmanship.



No. 2 Drill Seeder. Price \$13.75.



"Planet, Jr.," No. 1, Combined Drill, Seeder and Wheel Hoe, Cultivator and Plow. Price, \$16.50.

This has long been the most popular combined tool made. As a seed sower it is the same as No. 2 Drill Seeder, smaller. From a drill it is changed to its other uses by removing two bolts, when hoes, etc., can be quickly attached. It is an excellent seed sower, a first-class double or single wheel hoe.

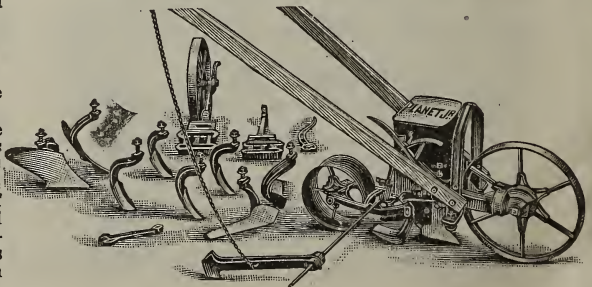
A pair of 6-tooth rakes supplied when specially ordered. Price, \$1.50 extra.

No. 25 Combined Hill and Drill Seeder and Double-Wheel Hoe, Cultivator, Rake and Plow. Price \$23.75.

11¼-inch wheels. Hopper holds 2½ quarts.

It practically combines in one tool the No. 4 Drill and No. 12 Double-Wheel Hoe.

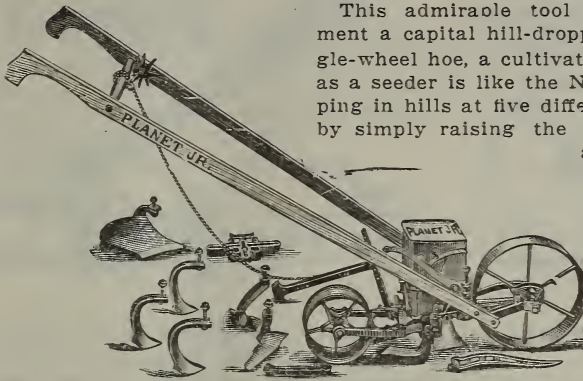
As a drill it is almost identical with the "Planet Jr.," No. 4 Drill; will sow in drills or hills, 4, 6, 8, 12 or 24 inches apart, and has the same feed, hill-dropping mechanism and automatic device for throwing out of gear, and the new combined cut-off and seed index, with brass thumbscrew adjustment. It is thoroughly substantial and is accurate in sowing all kinds of garden seeds, in either hills or drills.



FAR-FAMED "PLANET JR." GARDEN TOOLS—Continued

No. 4 Combined Hill and Drill Seeder and Wheel Hoe Cultivator and Plow. Price,

\$20.25. Drill only, \$16.25.

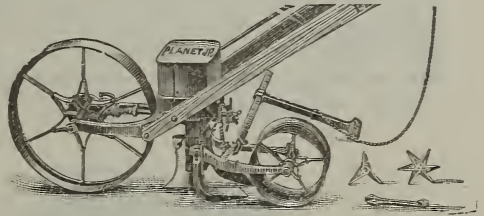


This admirable tool combines in a single convenient implement a capital hill-dropping seeder, a perfect drill seeder, a single-wheel hoe, a cultivator, and a plow. It holds two quarts, and as a seeder is like the No. 5, sowing in continuous rows, or dropping in hills at five different distances. It is thrown out of gear by simply raising the handles. The index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single-wheel hoe, garden plow, or cultivator. It is useful almost every day of the season, at every stage of garden work. With this one implement the small farmer can do practically all the work in his small crops.

A set of three rakes supplied when specially ordered. Price, \$1.50 extra.

No. 3 Hill and Drill Seeder. Price, \$19.25.

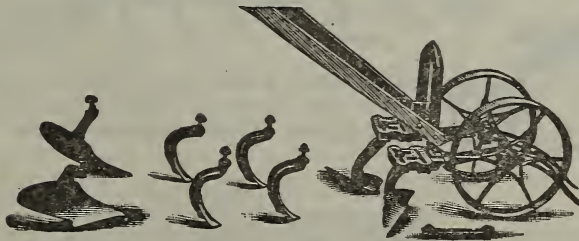
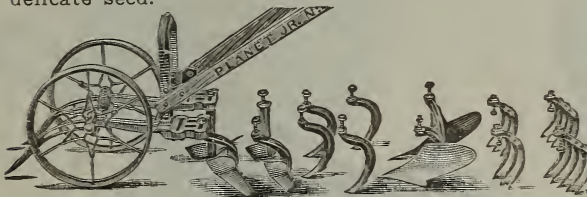
Hopper holds three quarts; 15-inch patent steel driving-wheel, with broad face, which makes the drill run easily, even when full. The quantity of seed is regulated by an accurate index, conveniently placed at the top of the handle, and carefully graduated for either hill dropping or drilling. The flow of seed is started or stopped by a single movement of the forefinger. The roller is broad and hollow faced, leaving a wide, smooth track for the wheel hoe. It is extremely simple and will not injure the most delicate seed.



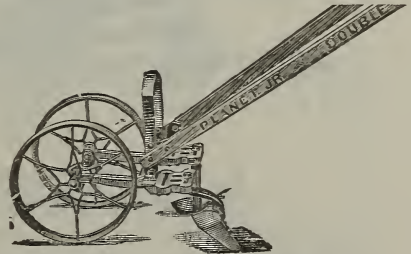
DOUBLE-WHEEL HOES.

The "Planet, Jr.," double-wheel hoes are the greatest tool in the world for the gardeners. They do more work, and do it better and easier, than can possibly be done in any other way. They represent the very highest perfection in every detail.

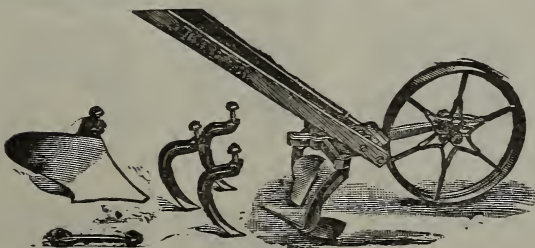
No. 11 Double-Wheel Hoe Cultivator, Rake and Plow. Price, with attachments as shown in cut, \$16.75.



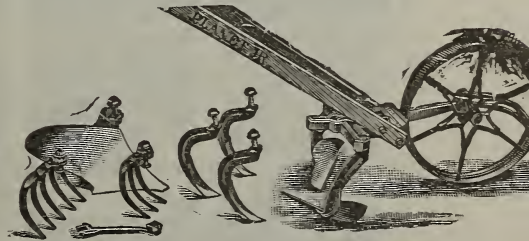
No. 12 Double Wheel Hoe, \$13.25.



No. 13 Double Wheel Hoe, \$10.00.

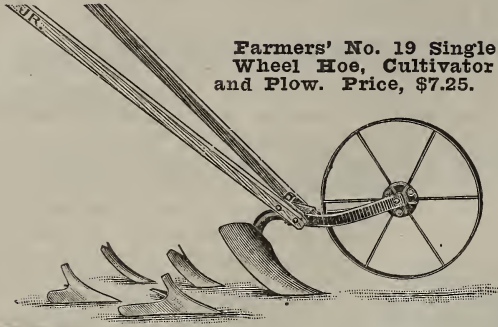


No. 17 Single Wheel Hoe, Cultivator and Plow. Price, \$9.75.

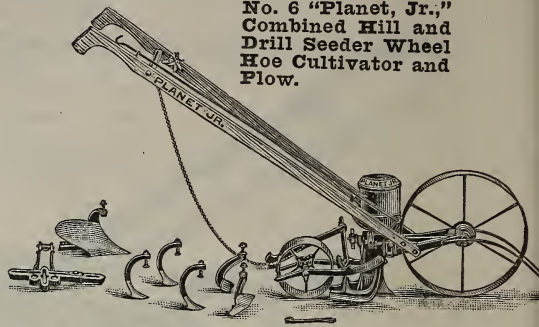


No. 16 Single Wheel Hoe, Cultivator, Rake and Plow, as in Cut, \$11.25.

FAR-FAMED "PLANET JR." GARDEN TOOLS—Continued



Farmers' No. 19 Single Wheel Hoe, Cultivator and Plow. Price, \$7.25.



No. 6 "Planet, Jr." Combined Hill and Drill Seeder Wheel Hoe Cultivator and Plow.

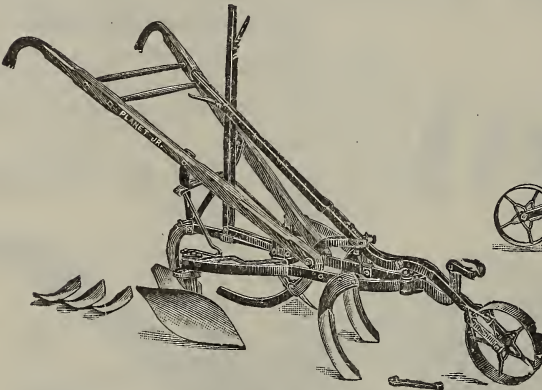
No. 17½ Single Wheel Hoe and Cultivator. Price, \$8.50.

This machine is similar to No. 17, except it has no plow, but it has a leaf lifter. Thousands of them are sold annually for cultivating sugar beets and onions.

No. 18 Single Wheel Hoe, with pair Hose only. Price, \$7.25.

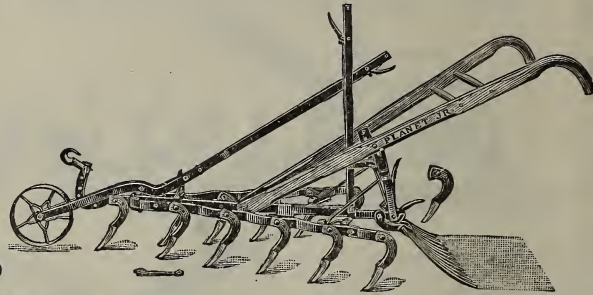
This latest "Planet, Jr." Hill and Drill Seeder and Wheel Hoe has been under construction for two years past, and has been held back until every detail has been made as nearly perfect as it seems possible to have it.

No. 6 "Planet, Jr." Combined Hill and Drill Seeder, Hoe, Cultivator and Plow. Packed weight, 58 lbs. Price, \$26.75.



No. 8 Horse Hoe and Cultivator. Price, with Attachments as in Cut, \$21.75.

The "Planet, Jr." Horse Hoe is by far the best machine for its kind on the market. It is adapted to every kind of cultivation and a great variety of work.



"Planet, Jr." Twelve-Tooth Harrow, Cultivator and Pulverizer. Price, plain, \$14.50; with Wheel, \$16.50; complete, \$21.50.

REMEMBER this list is **ONLY PART OF WHAT WE CARRY IN STOCK.**

Write for our handsome complete Catalogue of "Planet, Jr." Goods. Free.

HALL GARDEN PLOWS

A cheap but perfect hand garden cultivator, well made and practical for all garden and field cultivation by hand.

No. 6, price \$6.50.

No. 1, price \$5.50.

5 and 7 prong cultivator attachment, 75c.

Three prong cultivator attachment, 60c.

ACME POTATO PLANTER

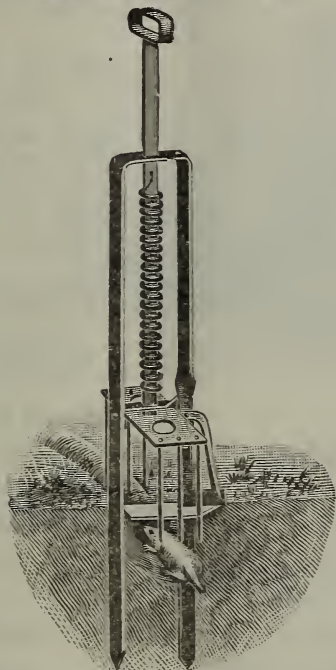
The original hand Potato Planter and most popular one on the market today. The No. 301 is self-locking.

Price, No. 300, \$1.25; No. 301, \$1.50.

ACME CORN PLANTER

Has no objectionable features; is made of good material. Has iron seed box and iron channel; foot of polished steel. Strong, durable, and gives universal satisfaction.

Price, \$1.50. Weight, 5 lbs.

REDDICK MOLE TRAP

In the early part of the season the mole run shows above the ground, and all that is necessary is to press on the runway with the heel, closing it for a few inches, and set this trap directly straddle of the run. Full directions with each trap.

NO MOLE CAN PASS UNDER IT AND LIVE. These traps are strong and durable and worth the price to any one troubled with moles. Price, \$1.50.

RAFFIA

1 lb., 50c; 5 lbs., \$2.00.

GRAFTING WAX

1 lb., 65c; by mail, 70c per lb.

WEEDERS

Diamond-shape steel blade with wood handle. Handy, strong and durable, 25c; post-paid, 30c.

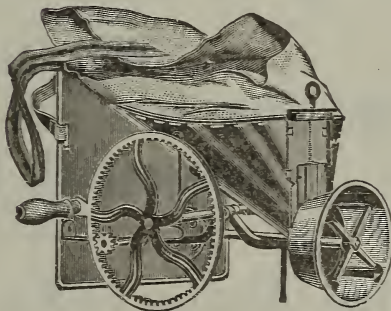
TREE LABELS

Plain, wired\$1.25 per 1,000
Painted, wired 2.00 per 1,000
Unpainted, copper wired.... 1.75 per 1,000
Painted, copper wired 2.50 per 1,000

POT LABELS

(Painted)

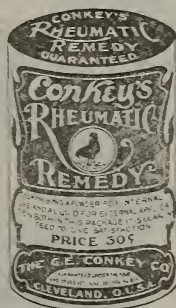
4-in.....\$1.25 per 1,000
5-in..... 1.50 per 1,000
6-in..... 1.85 per 1,000
8-in..... 2.25 per 1,000

IMPROVED CAHOON

This is probably the most popular broadcast sower on market. They have a force feed, and throw the seed from 15 to 26 feet, according to weight.

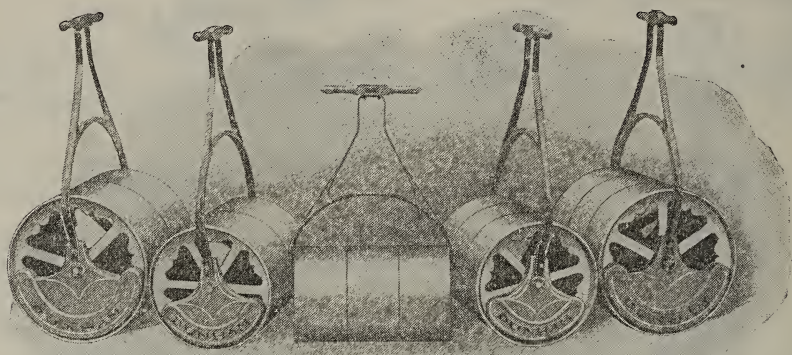
Price, \$4.00.

• Cyclone Seeder, \$2.50.



The Dunham Cast

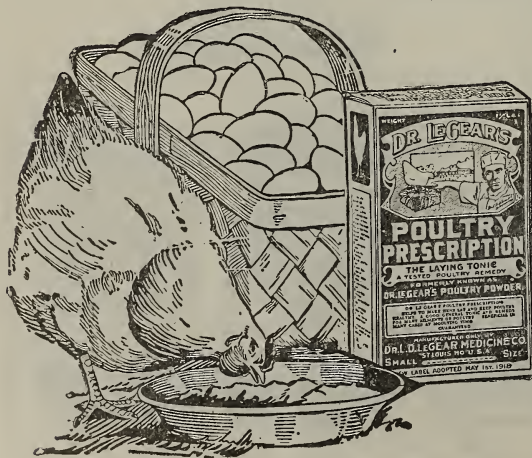
Iron Lawn Roller



Will last a lifetime.
Just what is needed to procure a fine lawn.
Indispensable for large grounds.

Price, \$15.00 to \$30.00, according to size

USE WATER OR SAND WEIGHT



We Are Agents for Dr. L. D.
Le Gear Poultry and Stock
Remedies

| | |
|-------------------------------------|------------------|
| Poultry Powder, pkg..... | 30c, 60c, \$1.20 |
| Lice Powder, pkg..... | .30 |
| Roup Remedy, pkg..... | .30 |
| Cholera Remedy, pkg. | .30 |
| Head Lice Remedy, pkg..... | .30 |
| Dip and Disinfectants, quarts..... | .75 |
| Dip and Disinfectants, gallons..... | 2.00 |

We Are Agents For Pratt's and Conkey's Goods

PRATT'S POULTRY REGULATOR

| | |
|-------------------|--------|
| 26-oz. Size..... | \$.30 |
| 4-lb. " | .60 |
| 12-lb. Pail | 1.75 |
| 25-lb. " | 3.50 |
| 50-lb. Sack | 6.50 |

PRATT'S ANIMAL REGULATOR

| | |
|-------------------------------|------|
| Per Package | |
| 30c, 60c, 85c and \$1.20 | |
| 12-lb. Pails | 2.50 |
| 25-lb. " | 4.00 |

| | |
|-----------------------------|-----------------|
| | Per Pkg. |
| Heave Powder..... | .50c and \$1.00 |
| Lice " | .30c and 60c |
| Worm " | .60c |
| Calf Tonic | .60c |
| Cow " | .60c |
| Liquid Lice Killer, per can | |
| 60c 90c and \$1.50 | |

Freight Extra



CONKEY'S POULTRY REMEDIES

Each Article Must Satisfy YOU or You
Receive Your Money Back

| | | |
|--------------------------|--------|-----------------|
| Roup Cure | \$.50 | \$.50 Postpaid |
| Roup Cure | 1.00 | 1.00 " |
| Bronchitis Remedy | .50 | .50 " |
| Cholera Remedy .. | .25 | .25 " |
| Cholera Remedy .. | .50 | .50 " |
| Gape Remedy | .50 | .60 " |
| Chicken Pox Remedy | .50 | .55 " |
| Limber Neck Remedy | .50 | .55 " |
| Scaly Leg Remedy | .50 | .55 " |
| Rheumatic Remedy | .50 | .55 " |
| Poultry Laxative.. | .25 | .25 " |
| Poultry Tonic | .25 | .30 " |
| Head Lice Ointment | .10 | .10 " |
| Head Lice Ointment | .25 | .25 " |
| Lice Powder | .10 | .15 " |
| Lice Powder | .30 | .40 " |
| Lice Powder | .60 | .75 Exp. P'd |
| Lice Powder | 1.10 | 1.50 " |
| Lice Liquid | .60 | .75 " |
| Lice Liquid | .90 | 1.15 " |
| Lice Liquid | 1.50 | 2.00 " |
| Laying Tonic..... | .30 | .50 " |
| Laying Tonic..... | .60 | .75 " |
| Laying Tonic..... | 1.20 | 1.50 " |
| Laying Tonic..... | 4.00 | 4.50 Frt. P'd |
| Nox-i-Cide | .35 | .60 Exp. P'd |
| Nox-i-Cide | .60 | .85 " |
| Nox-i-Cide | .90 | 1.25 " |
| Nox-i-Cide | 2.00 | 2.00 " |
| Fly Knocker ---- | .75 | .90 " |
| Fly Knocker ---- | 1.25 | 1.50 " |
| Fly Knocker ---- | 2.00 | 2.30 " |



VALUABLE TABLES

| Quantity of Seed Required to Sow an Acre of Ground— | Lbs. to the Acre |
|---|------------------|
| Alfalfa or Lucerne..... | 15 to 25 |
| Barley—Broadcast | 125 to 130 |
| Beans, Dwarf or Bush—Hills | 50 |
| Beans, Dwarf or Bush—Drills | 60 |
| Beans, Tall or Pole—Hills..... | 35 |
| Beet, Garden—Drills | 10 |
| Beet, Field—Drills | 8 to 10 |
| Buckwheat—Broadcast | 45 |
| Cabbage, per acre after transplanting..... | 14 |
| Carrot—Drills | 4 |
| Clover, Red—Broadcast | 12 to 15 |
| Clover, White | 8 to 10 |
| Clover, Alsike—Broadcast | 6 to 8 |
| Corn, Sweet or Field—Hills | 15 |
| Corn, for fodder—Drills or Broadcast..... | 40 to 50 |
| Cucumbers—Hills | 2 |
| Flax, when wanted for seed..... | 30 |
| Grass, Kent. Blue, for pasture..... | 30 to 50 |
| Grass, Kent. Blue, for lawns..... | 100 to 125 |
| Grass, Orchard | 40 |
| Grass, English Rye, for meadows..... | 50 |
| Grass, English Rye, for lawns..... | 75 to 100 |
| Grass, Italian Rye | 50 |
| Grass, Red Top | 30 |
| Grass, Meadow Fesque | 35 |
| Grass, Meadow Fesque, or English Blue..... | 35 |
| Grass, Mesquite, in the chaff..... | 35 |
| Grass, Hungarian Millet | 30 to 40 |
| Grass, Millet | 30 to 40 |
| Grass, Millet for Seed..... | 15 |
| Grass, Mixed Lawn | 100 to 125 |
| Grass, Mixture for mowing and grazing..... | 15 |
| Melon, water—Hills | 2 to 3 |
| Melon, musk—Hills | 2 to 2½ |
| Oats—Broadcast..... | 80 to 90 |
| Onion, Black Seed—Drills..... | 5 to 6 |
| Onion, Bottom Sets—Drills..... | 250 |
| Parsnip—Drills | 6 to 7 |
| Peas—Drills | 100 |
| Peas—Broadcast | 150 |
| Potatoes—Hills | 500 |
| Pumpkins—Hills | 5 to 6 |
| Radish—Drills | 8 to 10 |
| Rye—Broadcast | 100 |
| Spinach—Drills | 10 |
| Squash, bush varieties—Hills | 4 |
| Squash, running varieties—Hills | 3 |
| Sugar Cane, if for fodder..... | 70 to 80 |
| Tomato, in beds to transplant..... | 1/8 to 1/4 |
| Turnip and Rutabaga—Drills..... | 1½ to 3 |
| Turnip and Rutabaga—Broadcast..... | 3 |
| Vetches—Broadcast | 150 |
| Wheat—Broadcast | 80 to 100 |
| Wheat—Drills | 75 to 80 |

SPECIAL

QUOTATIONS

IF YOU are a Market Gardener, or a large Planter of Field and Farm Seeds, this sheet should interest you and save you money on your purchases. It is for your benefit more than ours. Our Catalog goes to thousands of Planters, practically all of whom grow farm or garden crops, or both. You have probably looked through our Catalog, and have selected a number of varieties of seeds you need. Should you require a considerable quantity, we may be able to make you lower prices than quoted in our Catalog. Write the varieties and quantity of each variety wanted in the specially prepared space on opposite side of this sheet, and send to us, when we will quote you *special* delivered prices. We can secure from proper officials here correct Freight, Express and Parcel Post Rates to any point, and by sending us a list of the seeds you need, we will be able to quote you on the varieties and quantities desired, and to tell you just what they will cost you delivered at your Freight, Express or Post Office. This sheet is for Market Gardeners and large buyers of field and farm seeds, and not for special quotations on seeds by the packet, ounce, quarter pound, half pound and pound, or special collections on which reduced prices have been quoted in our Catalog. We believe every purchaser of seeds desires to know just what their seeds are going to cost them, delivered, and for this reason we ask for a list of your requirements, that we may quote you intelligently and specifically. We want to co-operate with you in making every saving possible on your purchases, and if you will send us a list of varieties and quantities of seeds needed, we will let you know exactly what they will cost you, delivered. *Write today.* An inquiry may save you Dollars, and will place you under no obligation to us.

Yours for economy and service

SEATTLE SEED COMPANY

810-12 WESTERN AVE., SEATTLE, WASH.

SPECIAL QUOTATION SHEET

SEATTLE SEED CO., SEATTLE, WASH.

Gentlemen: I am in the market for seeds as listed below, and will ask you to please quote your very lowest delivered prices on same. It is distinctly understood that in asking for special prices, I am under no obligation to purchase same.

| This Sheet for Our Special Delivered Prices Only. When Ordering, Use Special Order Sheet in Front of Book. | QUANTITY | VARIETY | LEAVE THIS SPACE BLANK | |
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PLEASE FILL OUT IN PLAIN WRITING THE BLANK SPACES BELOW

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| NAME | The Above Seeds to be Delivered to me at |
| P. O. | Be Sure and Write Station or P. O. on above line. |
| COUNTY | By |
| R. F. D. No. STATE | State if Freight, Express, Mail or Cheapest Way |

Parcel Post Rates

SIZE AND WEIGHT—A Parcel Post package may weigh from four ounces to fifty pounds for the first and second zones—with a twenty-pound weight limit for third to eighth zones, and must not exceed in size 72 inches in length and girth combined.

Four ounces or less will be charged for at one cent per ounce or fraction thereof, except on Books, Seeds, Plants, Bulbs, etc., which are 1c for 2 ozs. up to 8 ozs. for any distance.

SEEDS, BOOKS, ETC.—Seeds, Plants and Books over 8 ozs. and other Fourth Class matter over 4 ozs. are charged at pound rates, a fraction being charged as a full pound.

Local Zone—Shipments handled by one postoffice only. 5c for first pound, and 1c for each additional two pounds.

First and Second Zones—To any postoffice within 150 miles. 5c for the first pound, 1c for each additional pound.

Third Zone—More than 150 miles, less than 300 miles. 6c for the first pound, 2c for each additional pound.

Fourth Zone—More than 300 miles, less than 600 miles. 7c for the first pound, 4c for each additional pound.

Fifth Zone—More than 600 miles,

less than 1,000 miles. 8c for the first pound. 6c for each additional pound.

Sixth Zone—More than 1,000 miles, less than 1,400 miles. 9c for the first pound, 8c for each additional pound.

Seventh Zone—More than 1,400 miles, less than 1,800 miles. 11c for the first pound, 10c for each additional pound.

Eighth Zone—All over 1,800 miles, and to all points in Alaska and Canada. 12c for the first pound and 12c for each additional pound.

Poisons cannot be shipped by parcel post.

We suggest to order your Seeds and Supplies as early as possible and you are more sure to get what you want. Supplies are still limited and may run short as season advances.

Coal Burning Colony Brooding Hovers



Will take care of a thousand to
fifteen hundred chicks